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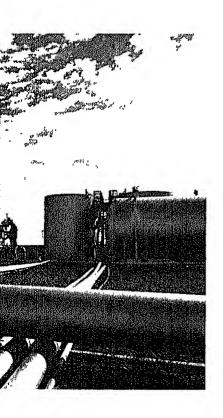
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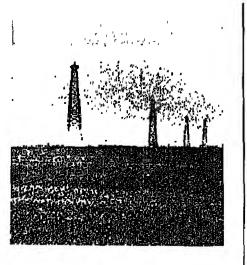
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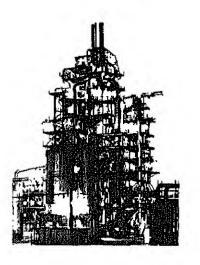
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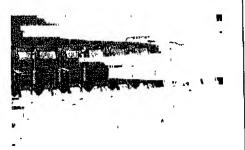
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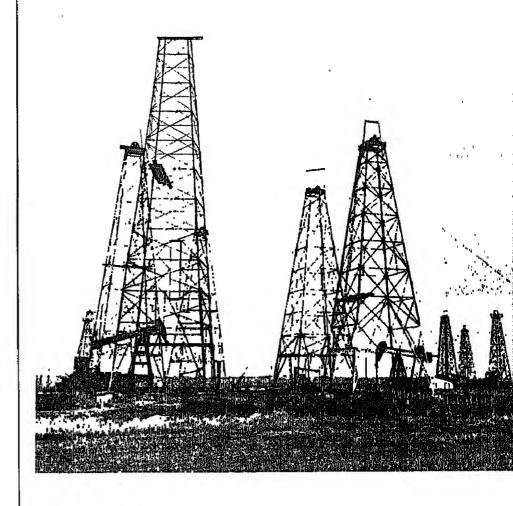


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Petroleum Focus

Petroleum Supply Summary

	_	December			Cumulative January Through December			
Average Volume for Period			%			%		
(Million Barrels Per Day)	1982	1981	Change	1982	1981	Change		
Total Product Supplied	14.9	16.6	-10.3	15.2	16.1	-5.3		
Motor Gasoline	6.2	6.7	-6.6	6.5	6.6	-1.2		
Distillate Fuel Oil	2.8	3.2	-13.1	27	2.8	-5.7		
Residual Fuel Oil	1.3	2.2	-42.4	1.7	2.1	-20.1		
Crude Inputs to Refineries Crude Oil and Natural Gas	11.8	12.3	-4.7	11.8	12.5	-5 4		
Liquids Production	10,3	10.2	1.2	10.2	10.2	0.4		
Net Imports ¹	3.6	5.2	-30.8	4.2	5.4	-21.9		
Net Crude Oil Imports ²	2.6	3.8	-30.8	3.1	3.9	-21.9		
SPR Imports	0.1	0.2	-12.1	0.2	0.3	-34.8		
Net Product Imports	8.0	1.2	~33.0	1.0	1.2	-19.4		
Crude Oil Stock Withdrawal ²	(s)	0.08		0.03	0.05	_		
Product Stock Withdrawal	0,20	0.75		0.24	0.13			
Stocks at End of Period (Million Barrels)								
Crude Oil ²	354	363	-2.6					
Motor Gasoline ^s	237	253	-6.4					
Distillate Fuel Oil	181	192	-5.6					
Residual Fuel Oil	68	78	-12.7					
Cotal Product	792	890	-11.0					
SPR	293	230	27.4					
rotal rotal	1,440	1,484	-3.0					

^{&#}x27;Gross imports of crude oil (including Strategic Petroleum Reserve) and petroleum products less exports of crude oil and petroleum products.

Note: Percent changes are based on unrounded values. December 1982 data are estimates based on weekly data, except for export estimates which are November 1982 monthly values. Source: Energy Information Administration, Petroleum Supply Monthly, January 1983.

²Excluding Strategic Petroleum Reserve (SPR).

³Including blending components.

⁽s) Less than 5,000 barrels per day

U.S. Petroleum Developments: 1982

Petroleum developments in 1982 were characterized by continued declines in many areas:

- Imports and petroleum consumption continued to decline.
- Stocks of products declined sharply and remained low.
- Crude oil prices as well as retail and wholesale refined product prices fell.
- Refinery production and capacity declined.
- Drilling activity decreased substantially from the record peak in 1981.

Crude oil production and exports did not follow the downward trend. Crude oil production was virtually unchanged from the 1981 rate; while exports increased for the seventh consecutive year.

Petroleum Consumption

During 1982, petroleum consumption in the United States (measured as products supplied for domestic use) declined for the fourth consecutive year (see Figure 1). The average consumption of 15.2 million barrels per day, was about 900 thousand barrels per day lower than the 1981 average and was the lowest annual average for petroleum consumption since 1971. Even though prices fell, especially during the first quarter of 1982, consumption continued to drop as the economy weakened. Continued conservation efforts and fuel switching, induced by past sharp petroleum product price increases, also contributed to the decline, even though petroleum prices . were generally lower during 1982 than during 1981.

Despite the continuing decline in consumption, petroleum, remained the principal U.S. energy source. About 43 percent of the energy consumed in the United States during 1982 came from petroleum (see Figure 2). This percentage, which reached a peak at 49 percent in 1977, continued to drop as high petrole-

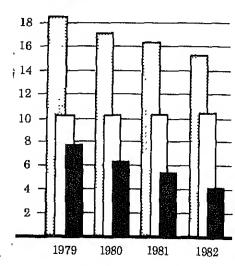
um prices and the relatively lower cos of using fuels such as natural gas ar coal encouraged conservation by co sumers and conversion to other fuels.¹

Motor gasoline supplied for domest use averaged 6.5 million barrels per diduring 1982, 12 percent below the average for 1978, the peak year of gasoli consumption and about 1 percent below that of 1981. This decline occurred compute the fact that gasoline prices we lower throughout most of 1982 that those in 1981. Residual fuel oil and ditillate fuel oil also showed large decling in consumption, down 20 percent and percent, respectively, from their 1981 levels. Consumption of these and oth major refined products generally discrete.

Energy Information Administration, Mc thly Energy Review, DOE/EIA-0035(82/1 (Washington, D.C., December 1982), p. 6. Energy Information Administration, Petileum Supply Monthly, DOE/EIA-01-(83/01) (Washington, D.C.: January 1983) 26.

Figure 1. Petroleum Summary (Million Barrels per Day

Total Products Supplied
Total Domestic Production
Net Imports



¹Includes crude oil and natural gas plant liquid production. Source: Petroleum Supply Monthly

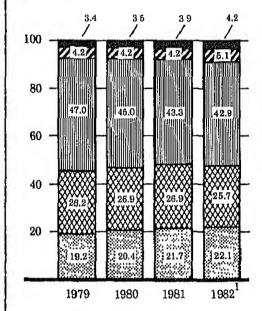
Figure 2. Consumption of Energy by Type (Percent)

Nuclear Power

Hydropower, Geothermal and
Other

Petroleum

Natural Gas
Coal



Data for 1982 are for the months of January through September.

Source: Energy Information Administration, Monthly Energy Review, DOE/EIA-0035-(81/12), Washington, D.C., December 1982

creased by an average of 5 percent during the year (see Figure 3).^a

Distillate fuel oil consumption, which averaged 2.7 million barrels per day in 1982, was about 6 percent below the average for 1981. The October 1982 price for home heating oil was approximately \$1.20 per gallon compared with the average price of approximately \$1.19 per gallon in October 1981.

After decreasing nearly 17 percent between 1980 and 1981, residual fuel oil consumption continued to decline during 1982, averaging 1.7 million barrels per day, about 20 percent below the 1981 average. The average retail price per barrel, excluding tax, of residual fuel oil in the first 10 months of 1982 was \$29.16, more than 10 percent below the average price for 1981. That the decline

in consumption came at a time wherever prices were falling indicates the important of the sluggish economy on industriusers, the second largest consumers residual fuel oil (Electric utilities are largest consumers).

Fuel-switching by electric utilities a industrial plants also contributed to decline in residual fuel oil consumpti During 1981, the costs of generat electricity were significantly higher utilities burning residual fuel oil the

³Petroleum Supply Monthly, (January 19 pp. 27, 32, and 36.

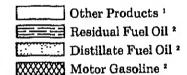
*Petroleum Supply Monthly (January 19) p. 27.

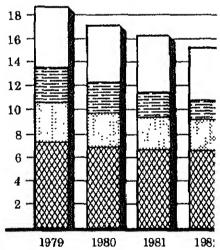
Energy Information Administrati Monthly Petroleum Product Price Rep. DOE/EIA-0032 (82/10) (Washington, D October 1982) Table 8.

*Petroleum Supply Monthly (January 19 p 32.

Monthly Petroleum Product Price Reg. (October 1982) Table 3.

Figure 3. Petroleum Products
Supplied for Domestic
Use
(Million Barrels per Da





Other petroleum products include liquidases, jet fuels, and petrochemical stocks.

²Reflects recast 1979 and 1980 figures Explanatory Note 4.

Source: Petroleum Supply Monthly

for those burning coal and natural gas. The cost of burning residual fuel oil at steam electric utilities was \$5.29 per million British thermal units (Btu's), approximately three and a half times the cost of burning coal (\$1.53 per million Btu's) and nearly twice the cost of burning natural gas (\$2.83 per million Btu's).

Refinery Operations

The total operable distillation capacity of petroleum refineries in the United States decreased by about 1.1 million barrels per day during 1982 as 52 refineries shut down. Refinery capacity had previously decreased by 451 thousand barrels per day as a result of refinery closings during 1981. The continued refinery closings are the result of a combination of factors including the decreased demand for petroleum products, market shifts, increased transportation costs, consolidation of refinery operations, and decontrol of crude oil prices.

U.S. refineries operated at about 70 percent of capacity in 1982, partly as a result of the same factors which caused so many refineries to close. Crude oil inputs to refineries averaged about 11.8 million barrels per day during the year, about 5 percent below the 1981 average."

Petroleum Stocks

Total petroleum stocks (excluding Strategic Petroleum Reserve stocks) decreased about 107 million barrels during 1982. About 98 million barrels of the decrease were in inventories of refined products. 12 The drawdowns reflect refiners' decisions to maintain lower inventories.

At the end of 1982, stock levels of most major products were well below the levels at the end of 1981. Distillate fuel oil inventories, at 181 million barrels, were 6 percent below the level at the end of 1981; residual fuel oil inventories, at 68 million barrels, were nearly 13 percent below the level at the end of 1981. Inventories of motor gasoline stood at 237 million barrels, about 6 percent below the level at the end of 1981. Even though inventories were at substantially lower levels at the end of 1982, supplies of petroleum products, and of

fuel oils in particular, were expected to be adequate to meet the anticipated lower demand for the winter of 1982-1983

Imports

The downward trend in imports continued during 1982 as net imports (gross imports minus exports) of crude oil and petroleum products sank to an average of 4.2 million barrels per day, 22 percent below the average for 1981. During 1981, net imports averaged 5.4 million barrels per day, 15 percent below the level during 1980. Of the 1982 net import amounts, net crude oil imports averaged 3.2 million barrels per day, down 23 percent from 1981. Net imports of petroleum products averaged 1.0 million barrels per day, 19 percent below the annual average for 1981. The largest decline among petroleum product imports was in distillate fuel oil imports which were down 45 percent from 1981.14

Exports

Exports of petroleum products were about 200 thousand barrels per day, 57 percent higher during 1982 than during 1981. The growth in exports is attributable mainly to the relaxation of export restrictions. The increase was most noticeable in the residual fuel oil exports, which jumped by 94 thousand barrels per day and in exports of distillate fuel oil, which increased by 60 thousand barrels per day.¹⁵ For

⁸Energy Information Administration, Cost and Quality of Fuels for Electric Utility Plants, DOE/EIA-0191(81) (Washington, D.C., 1982) pp. 10, 14, 17.

Petroleum Supply Monthly, (January 1983), p. G-5.

¹⁰Petroleum Supply Monthly, (June 1982), n. 8.

¹¹Petroleum Supply Monthly (January 1983)

p. 23.
¹²Petroleum Supply Monthly (January 1983)

p. 18.

¹³Petroleum Supply Monthly, (January 1983) pp. 26, 27, and 32.

¹⁴Petroleum Supply Monthly, (January 1983) pp. 19, 22, and 27.

¹⁵Monthly Energy Review (December 1982) pp. 31, 40, and 42.

several months during the year, the United States was a net exporter of distillate fuel oil. In those months, the volume of distillate fuel oil exported exceeded the volume imported.

Crude Oil Production

Domestic crude oil production averaged approximately 8.6 million barrels per day for the fourth consecutive year. However, because of the declines in crude oil prices and demand, drilling activity, which reached an all-time high in 1981, decreased substantially during 1982.

The average number of drilling rigs operating declined from 4,520 in December 1981 to 2,696 in December 1982, a 40 percent decline. During 1982, 85,855 new wells were completed. This was 7,317 wells above the number completed during 1981. The second results of the number completed during 1981.

The number of seismic crews operating peaked at 744 in September 1981 and began a decline which continued through 1982. By December 1982, the number had reached 477, the lowest level since March 1980.16

Prices

Most petroleum prices declined steadily through the first 4 months of the year including: average domestic wellhead

prices of crude oil, the composite refiner acquisition costs of domestic and foreign crude oil, the average wholesale and retail prices of diesel fuel and heating oil, the average wholesale prices of residual fuel oil and the average retail price for motor gasoline. By September the average domestic wellhead price of crude oil was \$28.08 per barrel, \$3.05 be low that of one year earlier,19 and the average composite refiner acquisition cost in October was about 7 percent be low the cost at the end of 1981. The average retail price of motor gasoline, at \$1.27 per gallon in November, was about 6 percent below the average price in November 1981.20

The average price of residential heating oil, at \$1,20 per gallon, was about 1 per cent higher than in October 1981.²¹

¹⁶Hughes Tool Company, Rotary Rigs Run ning-By State (December 1981-Decembe 1982).

¹⁷American Petroleum Institute, Report of Drilling Activity in the United States (January 1981-December 1982).

[&]quot;Society of Exploration Geologists, "SEC News Release," (January 1980-Decembe 1982).

¹⁹Monthly Energy Review (December 1982 p. 80.

²⁰Energy Information Administration, Week ly Petroleum Status Report, DOE/EIA-0201 (83-01) (Washington, D.C.: January 21 1983), p. 17.

[&]quot;Weekly Petroleum Status Report, (Januar, 21, 1983), p. 17.

Trends in Petroleum Products Consumption, 1971-1982

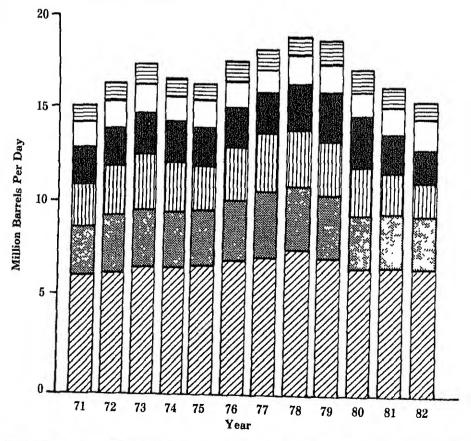
During 1982, consumption of petroleum products (measured as products supplied for domestic use) continued to decline as it has in each year since 1978. The average 1982 consumption of 15.2 million barrels per day was only slightly above the average during 1971.1 Petroleum products consumption has varied since 1971 in reaction to crude oil and petroleum product price changes, to product availability, and to economic conditions. Petroleum product consumption increased from 1971 to 1973 as supplies were plentiful and prices were relatively low. Then, as a result of the Arab oil embargo and collective action of the Organization of Petroleum Exporting Countries (OPEC), prices of imported crude oil and petroleum products increased rapidly. These sudden price changes contributed significantly to an economic recession which ran from November 1973 through March 1975.

The recession, combined with higher prices, in turn contributed to decreases in petroleum consumption in 1974 and 1975.

Because of increased imports and stabilized prices, petroleum supplies (notably supplies of gasoline) were abundant in 1976, and average annual consumption of petroleum products jumped more than 15 percent from 1975 to 1978, when 18.8 million barrels per day were consumed, the largest amount ever. The record consumption in 1978 was again followed by shortages in 1979 and increasing world crude oil prices. The average refiner acquisition cost of imported crude oil jumped from nearly \$15

'Energy Information Administration, Petroleum Supply Monthly, DOE/EIA-0109 (83/01) (Washington, D.C.: January 1983) p. 18.

Figure 4. Consumption of Major Petroleum Products: 1971 to 1982



Product
Jet Fuel
LPG
Other Products
Residual
Distillate
ZZZZ Motor Gasoline

Data Sources

The consumption data in this article are based on the State Energy Data System (SEDS), an EIA system that generates annual estimates of energy consumption by State and major enduse sectors. In the SEDS, State consumption of petroleum products is calculated by disaggregating national values using State sales or deliveries data. Complete documentation of the SEDS data sources and methodology is found in the EIA publication, State Energy Data Report, 1960 through 1980. This SEDS report is the source of consumption data presented in this article for the years 1971 through 1980, except where otherwise noted. The end-use sector consumption estimates for 1981 follow the SEDS methodology but use 1981 source data. Petroleum products consumption for 1982 is drawn from the products supplied information in the Petroleum Supply Monthly.

per barrel in December 1978 to approximately \$29 per barrel in December 1979 forcing up retail prices of petroleum products.² Petroleum consumers reacted to these dramatic price increases by switching to less costly fuels whenever possible and by reducing their consumption through conservation efforts. Since 1980, reduced industrial utilization, caused by the sluggish economy, combined with continued conservation and fuel switching has contributed to further declines in consumption of petroleum products.

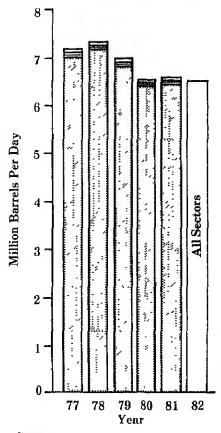
Trends in Consumption of Major Products

Since 1971, average annual consumption of motor gasoline, distillate fuel oil, and residual fuel oil combined has followed a pattern similar to that of total consumption (see Figure 4). Consumption of these products peaked in 1977 or 1978 and then declined. Consumption of residual fuel oil showed the most dramatic change over this period; it showed the greatest percentage increase among the major products and the most drastic decline. Consumption of liquefied petroleum gases (LPG) and of jet fuel, on the other hand, has been more stable during this period, showing no significant trend. Except for consumption of residual fuel oil, which was significantly lower, consumption of all of the major products during 1982 was either above or close to the amount of that product consumed in 1971.

Motor Gasoline

Motor gasoline consumption increased each year between 1971 and 1978 except 1974, the year after the Arab Oil Embargo. During 1978, motor gasoline consumption peaked at an average rate of 7.4 million barrels per day, about 23 percent higher than the 1971 level. Average annual consumption declined to 7.0 million barrels per day in 1979 and to 6.6 million barrels per day in 1980, a rate which continued through 1981 (see Figure 5). Consumption in 1982 averaged 6.5 million barrels per day, more than 12 percent below the peak consumption of 1978. However, because motor gasoline consumption remained relatively constant after 1980 while total petroleum product consumption declined, the motor gasoline portion of total consump-

Figure 5. Consumption of Motor Gasoline by End-Use Sector



Sector
Commercial
Industrial
Transportation

tion increased to 43 percent in 19 During most of the 1970's, motor galine's share ranged between 38 and percent of total petroleum consumpt

During 1977, the first year that E collected unleaded motor gasoline de annual consumption of unleaded motor gasoline averaged 2.0 million barrels day, about 28 percent of all motor galine consumed that year. Since 18 consumption of unleaded motor galine consumed that year. Since 18 consumption of unleaded motor galine has increased significantly.

³Energy Information Administra Monthly Energy Review, DOE/EIA-(3/80) (Washington, D.C.: March 1980), I ³Petroleum Supply Monthly (January 1 p. 26.

United States was unleaded. During 1982, unleaded gasoline consumption averaged 3.4 million barrels per day or about 52 percent of total motor gasoline consumption. The increase in consumption of unleaded motor gasoline was due to the increasing number of vehicles requiring unleaded gasoline (almost all of the automobiles currently manufactured for sale) and to the retirement of older cars which use leaded gasoline.

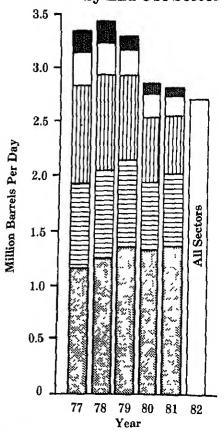
The fluctuations in total motor gasoline consumption are attributable in part to gasoline price increases, improved automobile efficiency, and changes in vehicle use patterns. Following the 1973 Arab Oil Embargo, when motor gasoline supplies became tight and gasoline prices increased, consumption declined slightly. By 1976, after consumers adjusted to these price increases and the supply of motor gasoline was again adequate. consumption rose as vehicle miles traveled increased. Then, in 1979, increases in the cost of imported crude oil caused gasoline prices to rise dramatically. By December 1981, the average price per gallon for all grades of gasoline was \$1.35,4 almost double the December 1978 price of \$0.69.6 Once more gasoline consumption fell as increased prices caused consumers to limit use of their vehicles. Continued improvements in fuel economy, which increased 15 percent from 1975 to 1981, also contributed to the reduction in consumption.

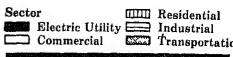
Distillate Fuel Oil

The pattern of distillate fuel oil consumption during the 1971-1982 period followed that of total petroleum more clearly than consumption of any other major product. During 1973, annual consumption of distillate fuel oil averaged 3.1 million barrels per day, 6 percent above the 1971 average. After decreasing slightly in 1974 and 1975, it climbed to 3.4 million barrels per day in 1978, 29 percent above the average for 1971 and 11 percent above the average for 1973. Since 1978, consumption of distillate fuel oil has decreased steadily (see Figure 6). During 1982, it averaged 2.7 million barrels per day, about the same as the 1971 average and more than 22 percent below the average for 1978 when distillate fuel oil consumption peaked.5

Increasing prices and conservation measures have contributed to declining use of distillate fuel oil by residences and commercial establishments (see F ures 6, 10, and 11) as their primary he ing fuel. Industrial consumption has clined since 1979 because of stagni economic conditions (see Figures 6 a 13). While these decreases were occ ring, the importance of distillate fuel in the transportation sector increas (see Figures 6 and 14). The use of die fuel in on-highway vehicles (truc buses, and autos), as a low-sulfur bunl fuel for intercoastal shipping, and as railroad fuel has offset the declini heating and industrial market for dis late fuel oils in recent years. As a resu the distillate percentage of total co sumption has remained relatively co stant at about 18 percent, even thou its importance in different sectors of t economy has changed.

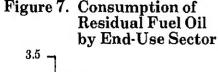
Figure 6. Consumption of Distillate Fuel Oil by End-Use Sector

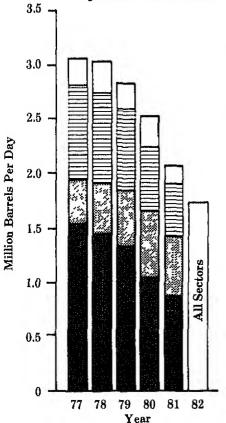




^{&#}x27;Monthly Energy Review (March 1982), p. 'Monthly Energy Review (March 1980), p. 'Petroleum Supply Monthly (January 198 p. 27.

Sector Electric Utility Commercial Electric Utility Residential Industrial Transportation

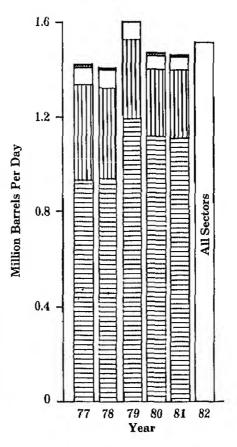




Residual Fuel Oil

The trend in residual fuel oil consumption differs somewhat from that of the other major products. Annual consumption of residual fuel oil peaked in 1977 at 3.1 million barrels per day. In 1977, consumption of residual fuel oil was almost 34 percent higher than in 1971, the largest percentage gain among the major products. At the same time, its share of total petroleum product consumption was also larger-15 percent in 1971 and almost 17 percent in 1977, Since 1977, average annual consumption of residual fuel oil has declined. In 1982, consumption of residual fuel oil averaged 1.7 million barrels per day, 24 percent below the 1971 average and 46 percent below the average for 1977. The share of total petroleum consumption represented by

Figure 8. Consumption of Liquefied Petroleum Gases by End-Use Sector



residual fuel oil consumption was a lower in 1982 (11 percent) than in 19 (15 percent).

Throughout most of this 12-year period the principal consumers of residual for oil were electric utilities and industr plants. Consumption of residual fuel by electric utilities has declined sir 1977 mainly because its price has creased in relation to that of coal a natural gas. The decreased utilization manufacturing plants stemming fro the stagnant condition of the econor has resulted in decreased industrial t of residual fuel oil (see Figure 7). T portion of residual fuel oil consumed the transportation sector, however, panded as consumption at utilities a in industry declined. Transportation t represented only 13 percent of total sidual fuel oil consumption in 1977, b by 1981 it accounted for 26 percent the total, becoming the second large end-use of residual fuel oil.

Liquefied Petroleum Gases

Average consumption of liquefied pet leum gases (LPG) during 1982 w slightly more than 1.5 million barr per day, an average that was high than in any year except 1979 when L1 consumption reached almost 1.6 millibarrels per day. Except for the drop the recession year of 1975, consumpt of LPG was relatively stable at sligh more than 1.4 million barrels per c from 1972 through 1978. During 19 and 1981, average LPG consumpt was slightly less than 1.5 million barr per day.

Increased consumption of LPG in the dustrial sector has more than offset clines in usage by the other sectors sin 1978. Industrial use, primarily as r materials in chemical manufactures, counted for 76 percent of total LPG c sumption in 1981 as opposed to 66 pc cent in 1977 (see Figure 8).

Jet Fuels

Consumption of jet fuels remained retively constant between 1971 and 19 varying between slightly less than million barrels per day in 1974 and most 1.1 million barrels per day in 19 In 1981, the level fell to 1.0 million k

rels per day and remained at that level through 1982. The recent drop in consumption probably reflects reductions in air traffic brought on both by the controllers strike of 1981 and the depressed economic conditions during the past 2 years.

End-Use Sector Consumption

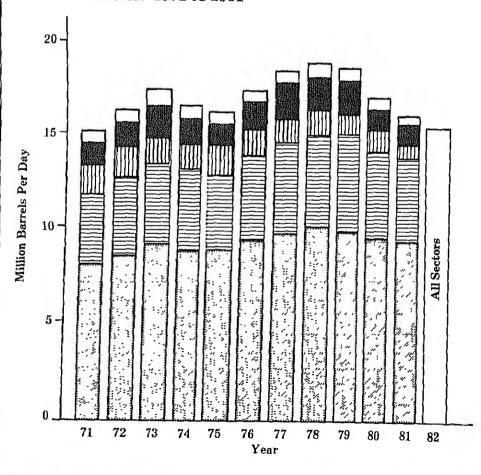
During the period from 1971 through 1981, patterns of consumption of major petroleum products changed. Two periods of major price increases were followed by reduced petroleum usage in all sectors of the economy, because of consumers' conservation efforts and their switching to other, less costly fuels. The transportation and industrial sectors consumed more petroleum in 1981 than in 1971, while the other sectors consumed less (see Figure 9).

Residential Sector

After remaining relatively stable in early 1970's at an annual average about 1.5 million barrels per day, a sumption of petroleum products in residential sector declined in recyears (see Figure 10). By 1981, residual use averaged only 0.9 million barper day, 40 percent below the aver residential consumption in 1971.

The portion of total petroleum prod consumption accounted for by the redential sector also declined during the period. In 1971, it was almost 10 period of the total; in 1977, it was 7 period of the total; in 1977, it was 7 period of the total; in 1981, it was only 6 perces after 1978, when consumption of products began to decline, resident use declined at an even faster rate. 1981, residential consumption he dropped 28 percent compared with a percent drop in total consumption.

Figure 9. Consumption of Petroleum Products by End-Use Sector: 1971 to 1981



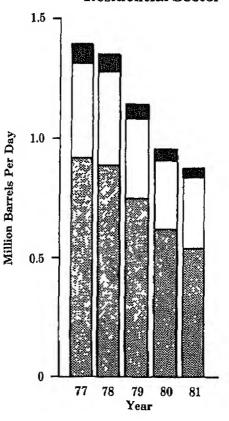
Sector
Commercial
Electric Utility
Electric Utility
IIII Residential
Industrial
Transportation

The decline in residential consumption of petroleum products can be traced primarily to fuel switching and conservation brought on by increases in the cost of fuel oil. The average retail price per gallon for residential heating oil was \$1.20 in 1981, almost triple the 1976 price of 40.6 cents. As the 1980 EIA Residential Energy Consumption Survey showed, many households have switched from heating oil to natural gas and wood.

Commercial Sector

The commercial sector uses about half as much petroleum as the residential sector. Between 1971 and 1981, commercial consumption fell from 0.7 million barrels per day in 1973, to a recent low of 0.5 million barrels per day in 1981. Commercial consumption in 1981 was 3 percent of total consumption compared with 5 percent in 1971.

Figure 10. Consumption of Major Petroleum Products in the Residential Sector



As with residential consumption, commercial use of petroleum products also declined as prices rose. Distillate and residual fuel oils are the principal petroleum products consumed in apartment buildings, business offices, and institutions. As the prices of petroleum products increased, commercial consumers began to switch to other fuels and to utilize conservation means to reduce expenses. In addition, economic conditions since 1981 have forced many commercial establishments to close.

Electric Utility Sector

Like petroleum consumption in the resi dential and commercial sectors, con sumption in the electric utility secto also declined. Electric utility consumption of petroleum products peaked in 1977 at 1.7 million barrels per day, 60 percent higher than the 1.1 million barrels per day consumed in 1971 and 40 percent above the 1981 average annua consumption of 1.0 million barrels peday. Since 1977, the electric utility por tion of total petroleum product consumption has declined as well, from about 11 percent in 1977 to 7 percent in 1981 (see Figure 12).

Price has been a primary factor in th decline in petroleum consumption a electric utilities. The significant in crease in the cost of fuel oil relative to the cost of other fuels has encourage switching to fuels other than petroleum The EIA report, Cost and Quality o Fuels for Electric Utility Plants, 198 Annual, shows that, in 1978, the cos (per Btu) of fuel oil to electric utilitie was 53 percent higher than natural ga costs and almost twice the cost of coa In 1981, the price differential had in creased, and the price of fuel oil was a most twice that of natural gas and a most three and a half times the price of coal.



Monthly Energy Review (March 1982), p. 8 Energy Information Administration, Revidential Energy Consumption Survey, Cosumption and Expenditures April 19 through March 1981, DOE/EIA-0321 (Washington, D.C.: September 1982), pp. 9.

Monthly Energy Review (November 198: p. 28.

Definitions of Major End-use Consuming Sectors

The State Energy Data System assigns energy consumption to five major end-use sectors according to the following guidelines:

- Residential Sector: Energy consumed by private household establishments primarily for space heating, water heating, air conditioning, cooking, and clothes drying.
- Commercial Sector: Energy consumed by non-manufacturing establishments. Included are motels, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises, as well as health, social, and educational institutions, and

energy consumed by Federal, State and local government.

- Industrial Sector: Energy consumed by manufacturing, construction, mining, agriculture, and forestry establishments.
- Transportation Sector: Energy consumed to move people and commodities in both the public and private sectors. Included are military, railroad, vessel bunkering, and marine uses, as well as the pipeline transmission of natural gas.
- Electric Utility Sector: Energy consumed by privately—and public-ly—owned establishments which generate electricity primarily for resale.

Figure 11. Consumption of Major Petroleum Products in the Commercial Sector

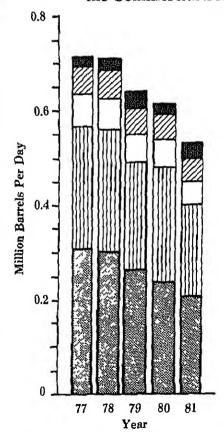
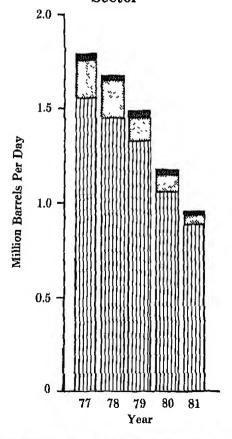


Figure 12. Consumption of Petroleum Products the Electric Utility Sector



Product

Other

Motor Gasoline

LPG

Residual
Distillate

Industrial Sector

Industrial use of petroleum products fluctuated with the economy between 1971 and 1981, but its share of total petroleum consumption changed very little (see Figures 9 and 13). During 1971, industrial consumption averaged 3.9 million barrels per day and accounted for about 25 percent of total consumption. Industrial consumption then climbed to 4.5 million barrels per day in 1973, before declining during the 1974-1975 recession. From 1976 through 1979, consumption again increased, as industrial output increased. It peaked at 5.1 million barrels per day in 1979, 33 percent above the 1971 average. Industrial consumption was lower in 1980 and again in 1981 as economic conditions deteriorated. The 1981 average of 4.1 million barrels per day was 20 percent below 1979 levels but 9 percent higher than in 1971. Industrial consumption in 1981 accounted for 26 percent of total petroleum product con sumption.

Transportation Sector

More petroleum is consumed in the transportation sector than in any other sector of the economy. It was the only economic sector in which a greater vol ume was consumed in 1981 than in 1971 Its share of total petroleum consump tion also increased over the same period Consumption for transportation uses averaged 9.5 million barrels per day ir 1981 compared with 8.1 million barrels per day in 1971. The 1981 average, how ever, was 6.5 percent below the record 10.1 million barrels per day consumed in 1978. As a portion of total consumption the transportation sector accounted for 59 percent in 1981 compared with portions ranging between 52 and 55 percent in the 1970's. Transportation is expected to remain the principal consuming sector for petroleum products throughout the 1980's.

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Major Petroleum

Figure 14. Consumption of

Figure 13. Consumption of Major Petroleum Products in the Industrial Sector

and by supersonate distribute a processor in a constant

Products in the Transportation Industrial Sector Sector 11 5 10 9 8 Million Barrels Per Day Million Barrels Per Day 3 2 Product □ LPG 3 Other 1 шш Residual Jet Fuel Distillate 7777 Motor Gasoline 78 79 80 81 77 77 78 79 80 81 Year Year

Summary Statistics

Crude Oil¹ and Petroleum Products Overview

		Fiel	d Production	on	Stock W	lthdrawal ²	}	Ending Stocks ³
		Total Domestic ⁴	Crude Oil	Natural Gas Plant Production	Crude Oli ⁵	Petroleum Products	Petroleum Products Supplied	Crude Oil ⁵ and Petroleum Products
				Thousand Barr	els per Day	,	<u></u>	Millions of Barrels
1973 1974 1975 1976 1977 1978	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	10,975 10,498 10,045 9,774 9,913 10,328	9,208 8,774 8,375 8,132 8,245 8,707	1,738 1,688 1,633 1,603 1,618 1,567	11 -62 -17 -39 -170 -78	-146 -117 -145 -96 -378 172	17,308 16,653 16,322 17,461 18,431 18,847	1,008 1,074 1,133 1,112 1,312 1,278
1979 1980	AVERAGE AVERAGE	10,179 10,214	8,552 8,597	1,584 1,573	∽148 - 98	-25 -42	18,513 17,056	1,341 1,392
1981	January February March April May June July August September November	10,231 10,294 10,272 10,195 10,160 10,287 10,098 10,243 10,281 10,225 10,269	8,540 8,604 8,613 8,557 8,501 8,629 8,500 8,583 8,604 8,563 8,563	1,652 1,653 1,624 1,599 1,593 1,594 1,548 1,614 1,612 1,598 1,630	50 -278 -632 -595 -391 -135 -360 397 -285 -760 -325	1,159 250 224 148 -374 406 91 -999 -341 477 -233	18,430 16,989 15,907 15,350 16,095 15,682 15,263 15,655 15,822 15,593	1,388 1,389 1,401 1,415 1,438 1,430 1,439 1,457 1,476 1,485
	December	10,220	8,585	1,590	-170	745	16,596	1,484
1982	January February March April May June July August September October November*	10,230 10,257 10,261 10,212 10,296 10,223 10,242 10,228 10,301 10,306 10,283 10,377 NA	8,572 8,669 8,690 8,597 8,652 8,660 8,681 8,649 8,701 8,733 8,676 8,690 8,660	1,609 1,548 1,524 1,570 1,588 1,520 1,505 1,521 1,543 1,513 1,540 1,634 NA	-290 -236 -216 -65 107 49 86 -155 -440 252 -564 R-357 -126	130 1,129 1,268 1,049 1,594 -34 -515 -865 4 -489 -55 R-357 200	15,890 15,941 15,560 16,048 14,845 14,931 14,771 14,838 14,921 14,820 R 15,031 14,894	1,461 1,431 1,401 1,350 1,349 1,362 1,394 1,407 1,415 1,434 R 1,455
	AVERAGE	NA	8,671	NA	-140	238	15,201	

Includes lease condensate.

Note: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic coverage: The 50 United States and the District of Columbia.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Ending stocks for 1973-1980 are totals as of December 31.
 Includes crude oil, natural gas plant production, other hydrocarbons and alcohol.

Includes stocks located in the Strategic Petroleum Reserve.
 Totals may not equal sum of components due to independent rounding.
 NA = Not available.
 R = Revised data

^{*} See Explanatory Note 5.1.

^{**} Italics denote preliminary data. See Explanatory Note 2.7.

Crude Oil¹ and Petroleum Products Overview (continued)

			Imports ²			Exports ³					
		Total	Crude Oil ⁴	Petroleum Products	Total	Crude OII	Petroleum Products	Net ⁵ Imports			
			Thousand Barrels per Day								
1973	AVERAGE	6,256	3,244	3,012	231	2	229	6,025			
1974	AVERAGE	6,112	3,477	2,635	221	3	218	5,892			
1975	AVERAGE	6,056	4,105	1,951	209	6	204	5,846			
1976	AVERAGE	7,313	5,287	2,026	223	8	215	7,090			
1977	AVERAGE	8,807	6,615	2,193	243	50	193	8,565			
1978	AVERAGE	8,363	6,356	2,008	362	158	204	8,002			
1979	AVERAGE	8,456	6,519	1,937	472	235	237	7,984			
1980	AVERAGE	6,909	5,263	1,646	544	287	258	6,365			
1981	January	6,827	4,932	1,895	558	339	219	6,270			
	February	6,772	4,873	1,899	569	198	371	6,203			
	March	6,028	4,521	1,507	586	210	376	5,442			
	April	5,668	4,338	1,330	570	198	372	5,098			
	May	5,775	4,287	1,489	595	312	283	5,180			
	June	5,435	4,061	1,375	420	123	297	5,015			
	July	5,816	4,296	1,521	571	257	314	5,245			
	August	5,767	4,179	1,588	644	204	440	5,123			
	September	6,365	4,740	1,624	519	194	325	5,845			
	October	5,959	4,380	1,579	738	226	512	5,221			
	November	5,741	4,046	1,695	701	278	423	5,041			
	December	5,843	4,137	1,706	656	189	467	5,187			
	AVERAGE	5,996	4,396	1,599	595	228	367	5,401			
1982	January	5,232	3,648	1,585	829	238	591	4,404			
	February	4,691	2,949	1,742	804	304	499	3,887			
	March	4,461	2,856	1,606	882	321	561	3,579			
	April	4,286	2,813	1,474	786	174	611	3,501			
	May	4,784	3,314	1,471	803	262	542	3,981			
	June	5,227	3,782	1,445	703	94	609	4,524			
	July	5,763	4,245	1,518	741	229	512	5,022			
	August	5,156	3,820	1,336	858	304	554	4,298			
	September	5,359	3,603	1,757	791	184	606	4,569			
	October	5,230	3,636	_ 1,594	932	270	662	4,298			
	November*	R 5,726	R 3,863	R 1,864	786	262	524	4,940			
	December**	4,377	3,023	1,354	NA	NA	NA	NA			
	AVERAGE	5,026	3,466	1,560	NA	NA	NA	NA			

Includes lease condensate.
 Includes shipments from United States possessions and territories.

Includes shipments to United States possessions and territories.
 Includes crude oil for storage in the Strategic Petroleum Reserve.

⁵ Net Imports = Imports minus Exports.

Totals may not equal sum of components due to independent rounding. NA = Not available. R = Revised data.

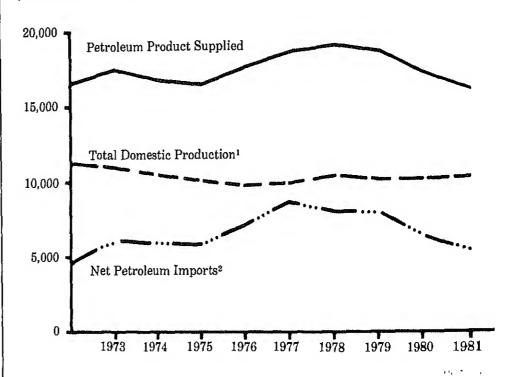
^{*} See Explanatory Note 5.1.

** Italics denote preliminary data. See Explanatory Note 2.7.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Petroleum Overview, Annual (Thousand Barrels per Day)



¹Includes crude oil and natural gas plant production.

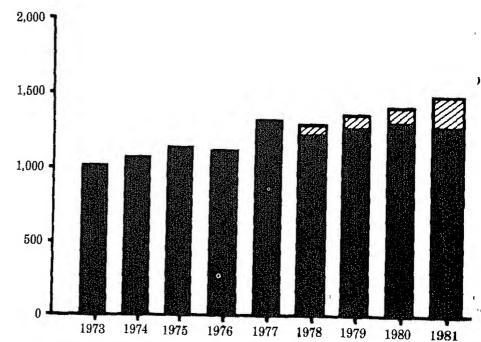
²Includes SPR imports.

Source table: "Crude Oil and Petroleum Products Overview."

Legend

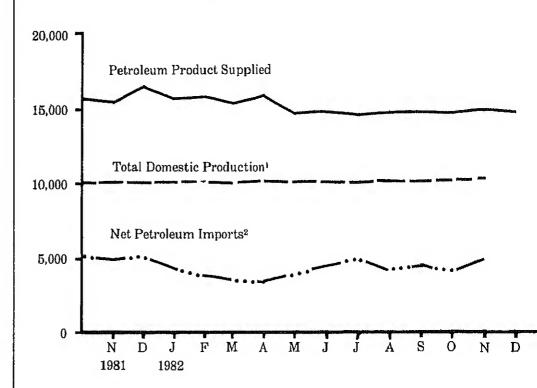
SPR Crude Oil

Crude Oil and Petroleum Products, Excluding SPR Crude Oil and Petroleum Products Ending Stocks, Annual (Millions of Barrels)



ource tables: "Crude Oil and etroleum Products Overview" and Crude Oil Supply and Disposition."

Petroleum Overview, Monthly (Thousand Barrels per Day)

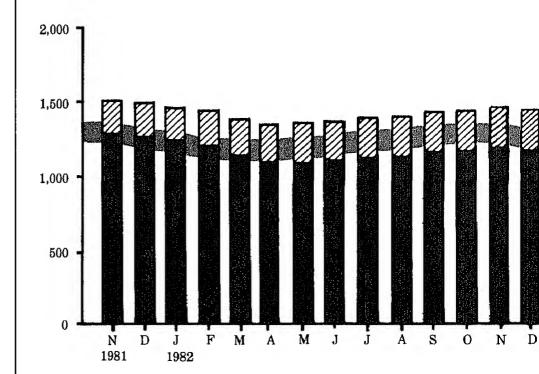


Includes crude oil and natural gas plant production.

²Includes SPR imports.

Source table: "Crude Oil and Petroleum Products Overview."

Crude Oil and Petroleum Product Ending Stocks, Monthly (Millions of Barrels)



Legend

SPR Crude Oil

Crude Oil and Petroleum Products, Excluding SPR

Average Stock Range

'Average stock range (excluding SPR) based on 3 years of data. See Explanatory Note 2.5.

Source tables: "Crude Oil and Petroleum Products Overview" and "Crude Oil Supply and Disposition."

					Supply			
		Field Pro	duction		Imports ²		Sto Withdr	
		Total Domestic	Alaskan	Total	SPR4	Other	SPR4	Other
				Thouse	ınd Barrels p	er Day		
973	AVERAGE	9,208	198	3,244		3,244		11
1974	AVERAGE	8,774	193	3,477		3,477		-62
1975	AVERAGE	8,375	191	4,105		4,105		-17
1976	AVERAGE	8,132	173	5,287		5,287		-39
1977	AVERAGE	8,245	464	6,615	21	6,594	-20	-150
1978	AVERAGE	8,707	1,229	6,356	162	6,195	-163	84
1979	AVERAGE	8,552	1,401	6,519	67	6,452	-67	-81
1980	AVERAGE	8,597	1,617	5,263	44	5,219	-45	-52
1981	January	8,540	1,606	4,932	106	4,826	-151	20
	February	8,604	1,619	4,873	80	4,793	-127	-15
	March	8,613	1,618	4,521	140	4,382	-155	-47
	April	8,557	1.608	4,338	272	4,066	-444	-15
	May	8,501	1,580	4,287	386	3,901	-513	12
	June	8,629	1,632	4,061	318	3,743	-434	29
	July	8,500	1,605	4,296	175	4,121	-324	-3
	August	8,583	1,602	4,179	257	3,922	-372	76
	September	8,604	1,607	4,740	435	4,305	-486	20
	October	8,563	1,596	4,380	453	3,927	-501	-25
	November	8,586	1,614	4,046	271	3.774	-259	-6
	December	8,585	1,623	4,137	165	3,971	-252	8
	AVERAGE	8,572	1,609	4,396	256	4,141	-336	4
1982	January	8,669	1,712	3,648	170	3,478	-159	-7
	February	8,690	1,715	2,949	159	2,790	-213	•
	March	8,597	1,702	2,856	185	2,671	-235	17
	April	8,652	1,687	2,813	190	2,623	-233	34
	May	8,660	1,725	3,314	204	3,110	-176	22
	June	8,681	1,675	3,782	105	3,678	-105	19
	July	8,649	1,715	4,245	97	4,147	-97	-5
	August	8,701	1,699	3,820	208	3,611	-208	-23
	September	8,733	1,707	3,603	139	3,463	-143	39
	October	8,676	1,677	3,636	216	3,420	-216	-34
	November*	8,690	1,667	R 3,863	R 180	FI 3,683	FI -179	R-17
	December**	8,660	1,663	3,023	145	2,878	-129	
	AVERAGE	8,671	1,695	3,466	167	3,299	-174	3

¹ Includes lease condensate.

Includes shipments from United States possessions and territories.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.

⁴ Strategic Petroleum Reserve.

Totals may not equal sum of components due to Independent rounding.

NA = Not available. R = Revised data.

* See Explanatory Note 5.2.

** Italics denote preliminary data. See Explanatory Note 2.7.
Note. Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.
Geographic coverage: The 50 United States and the District of Columbia

Sources: See "Sources" at the end of this section.

Crude Oil¹ Supply and Disposition (continued)

		Supply (C	ontinued)	Dispo	sition	E	nding Stock	8 ²
		Unac- counted for Crude Oil	Crude Used Directly and Losses	Refinery Inputs	Exports ³	Total Crude Oll	SPR ⁴	Other Primary
			Thousand Ba	arrels per Day	,	Mil	lions of Barr	els
1973	AVERAGE	3	-32	12,431	2	242		242
1974	AVERAGE	-25	-28	12,133	3	265		265
1975	AVERAGE	17	~30	12,442	6	271		271
1976	AVERAGE	77	-33	13,416	_8	285	_	285
1977	AVERAGE	-6	-30	14,602	50	348	7	340
1978	AVERAGE	-57	-30	14,739	158	376	67	309
1979	AVERAGE	-11	-29	14,648	235	430	91	339
1980	AVERAGE	34	-28	13,481	287	466	108	358
1981	January	113	-49	13,247	339	486	112	374
	February	-41	-58	12,902	198	494	116	378
	March	154	-63	12,383	210	514	121	393
	April	51	-62	12,091	198	532	134	397
	May	286	-62	12,309	312	544	150	394
	June	49	65	12,415	123	548	163	385
	July	147	~6 5	12,261	257	559	173	386
	August	16	-63	12,908	204	547	185	362
	September	-295	-65	12,505	194	555	199	356
	October	166	66	12,057	226	579	215	364
	November	279	-68	12,240	278	589	223	366
	December	52	-67	12,349	189	594	230	363
	AVERAGE	83	-63	12,470	228			
1982	January	-138	-66	11,638	238	606	235	371
	February	199	-66	11,252	304	612	241	371
	March	278	-68	11,277	321	614	249	366
	April	56	-68	11,386	174	611	256	355
	May	105	-65	11,801	262	609	261	348
	June	110	67	12,498	94	607	264	343
	July	1	-63	12,447	229	612	267	345
	August	140	-59	11,858	304	625	274	352
	September	-218	-59	12,126	184	618	278	340
	October	324	-53	11,750	270	635	285	351
	November*	-141	-52	R 11,741	262	R 646	FI 290	R 356
	December**	NA	NA	11,772	NA	648	293	354
	AVERAGE	NA	NA	11,798	NA			

¹ Includes lease condensate.2 Ending stocks for 1973-1980 are totals as of December 31.

Includes shipments to United States possessions and territories.
 Strategic Petroleum Reserve.

Totals may not equal sum of components due to independent rounding. NA = Not available. R = Revised data.

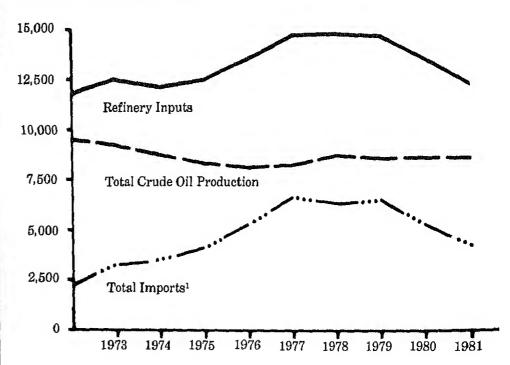
^{*} See Explanatory Note 5.2.

** Italics denote preliminary data. See Explanatory Note 2.7.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Crude Oil Supply and Disposition, Annual (Thousand Barrels per Day)



Includes SPR imports.

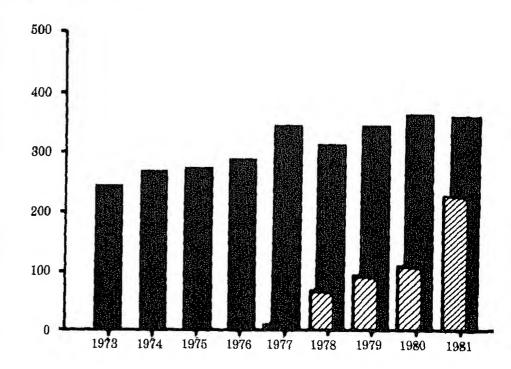
Source table: "Crude Oil Supply and Disposition."

Legend

SPR

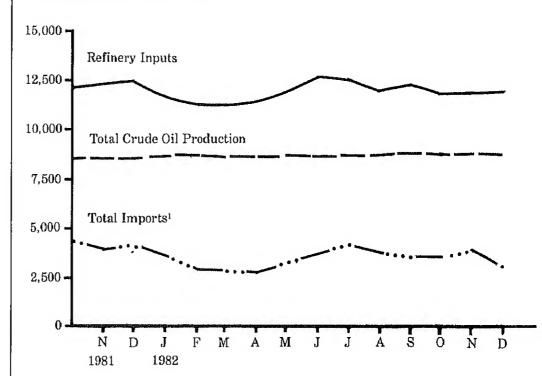
Other Primary

Crude Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Crude Oil Supply and Disposition."

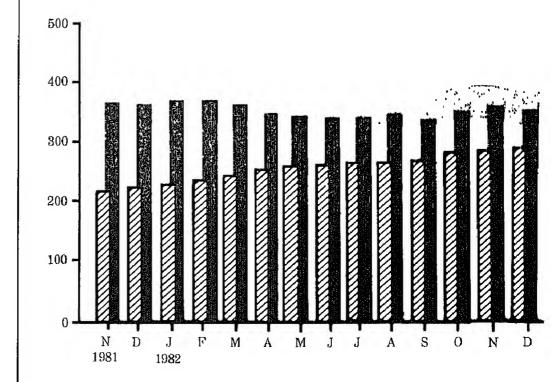
Crude Oil Supply and Disposition, Monthly (Thousand Barrels per Day)



cludes SPR imports.

urce table: "Crude Oil Supply and sposition."

Crude Oil Ending Stocks, Monthly (Millions of Barrels)



gend

SPR

Other Primary

🛮 Average Stock Range¹

verage stock range (excluding SPR) sed on 3 years of data. See planatory Note 2.5.

arce table: "Crude Oil Supply and sposition."

Finished Motor Gasoline Supply and Disposition

		Supply			Disposition				Ending Stocks		
		Total Produc- tion	Imports1	Stock With- drawal ¹ ²	Exports	Product Supplie			Total Motor	Finished Motor	
						Total	Unleaded4	Unleaded	Gasoline ³	Gasoline	
		Thousand Barrels per Day Percent of Total								Millions of Barrels	
1973	AVERAGE	E 6,535 134 9 4 6,674 NA					NA	209			
1974	AVERAGE	6,360	204	-24	2	6,537	NA	NA	218		
975	AVERAGE	6,520	184	-28	2	6,675	NA	NA	235		
976	AVERAGE	6,841	131	10	3	6,978	NA	NA	231		
977	AVERAGE	7,033	217	-72	2	7,177	1,976	27.5	258		
1978	AVERAGE	7,169	190	54	î	7,412	2,521	34.0	238		
1979	AVERAGE	6,852	181	2	(S)	7,034	2,798	39,8	237		
1980	AVERAGE	6,506	140	-66	1	6,579		46.6	261		
1900	AVENAGE	6,500	140	-00		0,579	3,067	40.0	201		
981	January	6,715	138	-421	(s)	6,431	3,141	48.8	276	227	
	February	6,308	111	-118	1	6,301	3,095	49.1	284	230	
	March	6,213	171	-81	(s)	6,303	3,097	49.1	285	232	
	April	6,114	186	303	(5)	6,602	3,284	49.7	272	223	
	May	6.122	150	344	``1	6,615	3,115	47.1	259	213	
	June	6,220	186	622	1	7.028	3,419	48.6	242	194	
	July	6,405	151	268	(s)	6,823	3,424	50.2	228	186	
	August	6,611	124	-95	`´3	6,637	3,344	50.4	233	189	
	September	6,564	169	-70	2	6,662	3,338	50.1	237	191	
	October	6,426	147	7	3	6,578	3,257	49.5	236	190	
	November	6,564	148	-338	1	6,373	3,198	50.2	248	201	
	December	6,586	197	-91	11	6,681	3,444	51.5	253	203	
	AVERAGE	6,405	157	28	2	6,588	3,264	49.5			
1982	January	6,181	114	-358	18	5,920	3,033	51.2	262	214	
	February	5,917	133	28	8	6,070	3,145	51.8	262	213	
	March	6,004	183	469	44	6,612	3,396	51.4	248	199	
	April	6,104	177	641	33	6,890	3,494	50.7	223	180	
	May	6,322	163	188	23	6,650	3,415	51 3	215	174	
	June	6,767	195	-136	14	6,812	3,561	52.3	220	178	
	July	6,788	200	-165	24	6,799	3,574	52.6	226	183	
	August	6,447	284	-60	16	6,655	3,520	52.9	226	185	
	September	6,530	215	-217	22	6,507	3,385	52.0	234	191	
	October	6,253	177	-25	15	6,391	3,360	52.6	234	192	
	November*	R 6.273	206	91	11	R 6,559	3,448	52.6	R 230	189	
	December**	6,447	NA	NA	NA	6,239	NA	NA	237	NA NA	
	AVERAGE	6,339	NA	NA	NA	6,510	NA	NA			

Beginning in 1981 excludes blending components.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

³ Includes motor gasoline blending components Ending stocks for 1973-1980 are totals as of December 31.

⁴ Includes gasohol.

Totals may not equal sum of components due to independent rounding.

⁽s) = Less than 500 barrels.
See Explanatory Note 5.3. NA = Not available. R = Revised data.

^{**} Italics denote preliminary data. See Explanatory Note 2.7.

Notes: Beginning in January 1981, survey forms were modified. See Explanatory Note 4 on Changes for the effects on motor gasoline statistics.

Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Distillate Fuel Oil Supply and Disposition

			Su	ipply	Dispo	Ending Stocks ¹				
		Total Production	Imports	Stock Withdrawal ²	Crude Used Directly	Exports	Product Supplied			
70-70		Thousand Barrels per Day								
1973	AVERAGE	2.822	392	-115	2	9	3,092	196		
1974	AVERAGE	2,669	289	-9	2	2	2,948	200		
1975	AVERAGE	2,654	155	40	2	1	2,851	209		
1976	AVERAGE	2,924	146	62	ī	i	3,133	186		
1977	AVERAGE	3,278	250	-176	i	i	3,352	250		
1978	AVERAGE	3,167	173	93	i	ġ	3,432	216		
1979	AVERAGE	3,153	193	-34	i	3	3,311	229		
1980	AVERAGE	2,662	142	64	i	3	2,866	205		
1981	January	2.989	273	836	11	(s)	4.109	179		
	February	2,809	325	246	11	`′17	3,373	173		
	March	2,484	147	264	9	(8)	2,904	164		
	April	2,418	116	-9	10	`′3	2.532	165		
	Mav	2,454	179	-232	10	(³)	2,411	172		
	June	2,501	225	-270	9	(^B)	2,464	180		
	July	2,395	179	-204	10	(-) 2	2,378	186		
	August	2,656	174	-450	8	(s)	2,378	200		
	September	2,610	129	-235	10	1	2,513	207		
	October	2,485	119	197	9	5	2,803	207		
	November	•	124	36	_	6		200		
	December	2,716			11	-	2,880			
	December	2,856	95	277	11	26	3,212	192		
	AVERAGE	2,613	173	38	10	5	2,829			
1982	January	2,615	96	780	10	90	3,410	166		
	February	2,447	130	689	11	90	3,187	147		
	March	2,294	48	612	10	84	2,881	128		
	April	2,357	59	631	13	64	2,996	109		
	Мау	2,618	74	-184	10	75	2,444	114		
	June	2,731	100	-335	10	55	2,450	125		
	July	2,734	124	-761	11	24	2,084	148		
	August	2,526	79	-346	10	40	2,228	159		
	September	2,658	59	-77	12	139	2,514	161		
	October	2,837	97	-290	8	66	2,586	170		
	November*	R 2.863	R141	R-514	8	24	R 2,475	R186		
	December**	2,706	147	32	NA	NA	2,790	181		
	AVERAGE	2,616	96	15	NA	NA	2,667			

¹ Ending stocks for 1973 - 1980 are totals as of December 31.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Totals may not equal sum of components due to independent rounding.

^{(5) =} Less than 500 barrels per day. NA = Not available. R = Revised data.

* See Explanatory Note 5.4.

^{**} Italics denote preliminary data. See Explanatory Note 2.7.

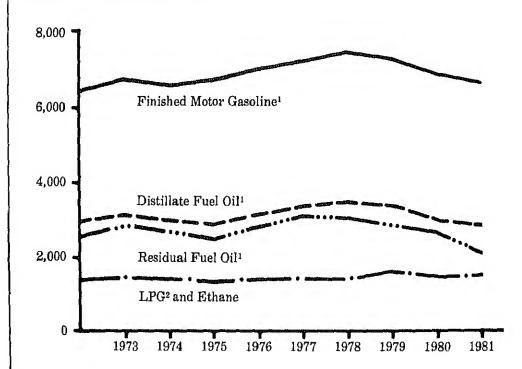
Note: Beginning in January 1981, survey forms were modified. See Explanatory Note 4 on Changes for the effects on Distillate Fuel Oil statistics.

Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Products Supplied, Annual (Thousand Barrels per Day)

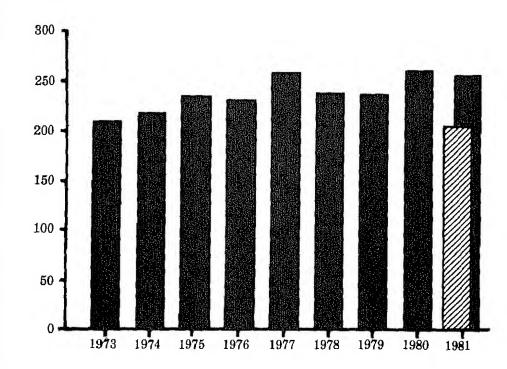


Figures for 1979 and 1980 recast to account for data system changes in 1981. See Explanatory Note 4.

²Liquefied Petroleum Gases.

Source tables: "Finished Motor Gasoline Supply and Disposition," "Distillate Fuel Oil Supply and Disposition," "Residual Fuel Oil Supply and Disposition," "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Motor Gasoline¹ Ending Stocks, Annual (Millions of Barrels)



Legend

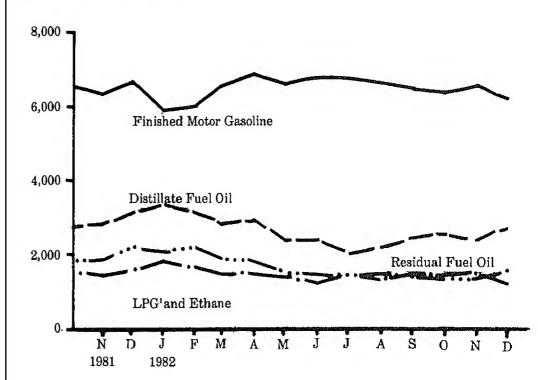
Total

ZZ Finished

Includes finished motor gasoline blending components.

Source table: "Finished Motor Gasoline Supply and Disposition."

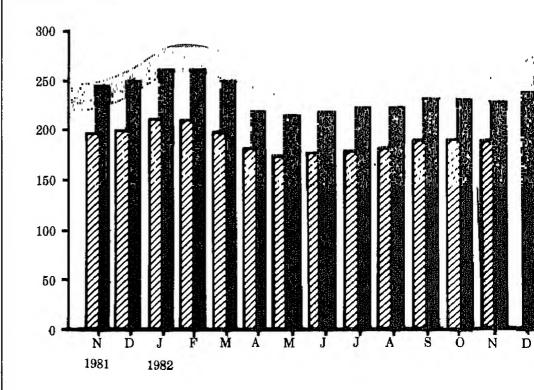
Products Supplied, Monthly (Thousand Barrels per Day)



iquefied Petroleum Gases.

ource tables: "Finished Motor asoline Supply and Disposition," Distillate Fuel Oil Supply and isposition," "Residual Fuel Oil Supply and Disposition," "Liquefied Petroleum ases and Ethane Supply and isposition."

Motor Gasoline Ending Stocks, Monthly (Millions of Barrels)



ægend

Total Motor Gasoline¹

Finished Motor Gasoline

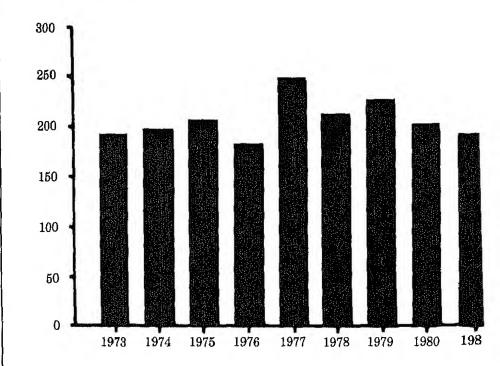
Average Stock Range²

ncludes finished motor gasoline ending components.

Average stock range for total motor asoline based on 3 years of data. See explanatory Note 2.5.

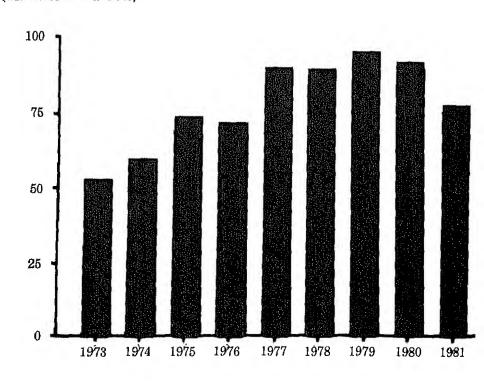
ource table: "Finished Motor Gasoline upply and Disposition."

Distillate Fuel Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Distillate Fuel Oil Supply and Disposition."

Residual Fuel Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Residual Fuel Oil Supply and Disposition."

_egend

Average Stock Rangel

Average stock range based on 3 years of lata. See Explanatory Note 2.5.

Source table: "Distillate Fuel Oil Supply and Disposition."

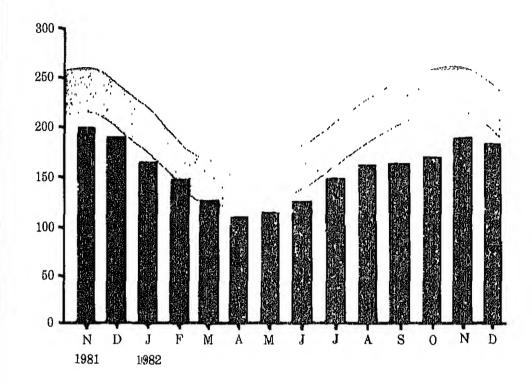
regend.

Average Stock Rangel

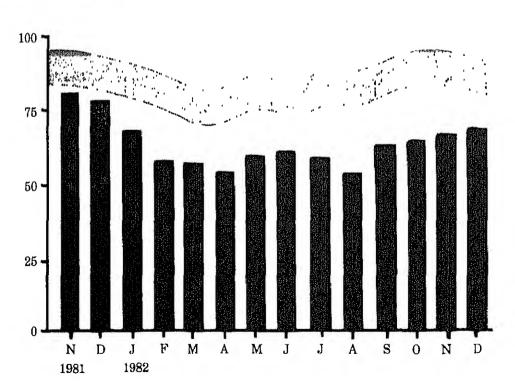
Average stock range based on 3 years of data. See Explanatory Note 2.5.

Source table: "Residual Fuel Oil Supply and Disposition."

Distillate Fuel Oil Ending Stocks, Monthly (Millions of Barrels)



Residual Fuel Oil Ending Stocks, Monthly (Millions of Barrels)



Residual Fuel Oil Supply and Disposition

974 975 976 977 978 1979 1980	AVERAGE AVERAGE AVERAGE	Total Produc- tion	Imports	Stock Withdrawal ²	Crude Used Directly		Products	
974 975 976 977 978 1979 1980	AVERAGE					Exports	Supplied	
974 975 976 977 978 1979 1980	AVERAGE			Thousand Bar	rels per Day			Millions of Barrels
975 976 1977 1978 1979 1980		971	1,853	5	17	23	2,822	53
975 976 1977 1978 1979 1980		1,070	1,587	-17	13	14	2,639	60
976 977 978 1979 1980	AVENAUE	1,235	1,223	2	15	15	2,462	74
977 978 1979 1980	AVERAGE	1,377	1,413	5	17	12	2,801	72
1978 1979 1980 1981	AVERAGE	1,754	1,359	-48	13	6	3,071	90
1979 1980 1981	AVERAGE	1,667	1,355	-1	13	13	3,023	90
1981 1981	AVERAGE	1,687	1,151	-15	12	9	2,826	96
1981	AVERAGE	1,580	939	10	12	33	2,508	92
	71 - 61 17 - 64	1,000	-	, •		00	2,000	•-
	January	1,612	1,015	302	32	65	2,896	82
	February	1,565	954	150	44	125	2,588	78
	March	1,424	699	100	48	145	2,126	75
	April	1,320	584	66	49	151	1,868	73
	May	1,223	741	-170	49	25	1,817	78
	June	1,232	540	291	49	76	2,037	69
	July	1,174	830	2	48	82	1,971	69
	August	1,231	819	-179	50	69	1,852	75
	September	1,292	841	-176	51	126	1,882	80
	October	1,238	786	8	54	202	1,884	80
	November	1,227	880	-49	53	203	1,909	81
	December	1,329	916	110	52	157	2,250	78
	AVERAGE	1,321	800	37	48	118	2,088	
1982	January	1 ,1 83	821	328	53	235	2,150	68
	February	1,136	928	358	53	213	2,261	58
	March	1,121	910	26	53	197	1,912	57
	April	1,162	762	124	52	234	1,867	54
	May	1,127	738	-175	52	191	1,551	59
	June	1,077	643	-49	50	217	1,504	61
	July	1,029	576	51	49	239	1,466	59
	August	1,007	519	200	47	235	1,538	53
	September	1,007	871	-302	44	148	1,472	62
	October	954	758	-56	43	234	1,466	64
	November*	R 989	R 843	FI-95	43	182	R 1,597	FI 66
	December**	1,032	558	-148	NA NA	NA	1,297	68
		.,000	000	,,,,			.,=0,	40

¹ Ending Stocks for 1973-1980 are totals as of December 31.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Totals may not equal sum of components due to independent rounding

NA = Not available. R = Revised data.

NA = Not available. H = Hevised data.

* See Explanatory Note 5 4.

* Italics denote preliminary data. See Explanatory Note 2.7.

Notes: Beginning in January 1981, survey forms were modified

See Explanatory Note 4 on changes for the effects on residual fuel oil statistics

Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

Geographic Coverage. The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Liquefied Petroleum Gases and Ethane Supply and Disposition

			Supply			Disposition		Ending Stocks ¹
		Total Production	Imports	Stock Withdrawal ²	Refinery Inputs	Exports	Product Supplied	
				Thousand Bar	rrels per Day			Millions of Barrels
1973	AVERAGE	1,600	132	-35	220	27	1,449	99
1974	AVERAGE	1,565	123	-38	220	25	1,406	113
1975	AVERAGE	1,527	112	-35	246	26	1,333	125
1976	AVERAGE	1,535	130	24	260	25	1,404	116
1977	AVERAGE	1,566	161	-55	233	18	1,422	136
1978	AVERAGE	1,537	123	12	239	20	1,413	132
1979	AVERAGE	1,556	217	70	236	15	1,592	111
1980	AVERAGE	1,535	216	-27	233	21	1,469	120
1981	January	1,617	306	363	352	21	1,913	117
	February	1,593	327	173	303	21	1,769	112
	March	1,551	260	-4	257	20	1,530	112
	Aprıl	1,586	214	-236	231	26	1,308	119
	May	1,587	189	-258	220	19	1,279	127
	June	1,567	206	-208	237	24	1,304	133
	July	1,507	213	-258	215	17	1,229	141
	August	1,592	195	-242	235	149	1,160	149
	September	1,622	199	-75	287	21	1,438	151
	October	1,593	287	72	320	76	1,556	149
	November	1,571	280	86	383	58	1,495	146
	December	1,468	255	379	428	50	1,624	135
	AVERAGE	1,571	244	-18	289	42	1,466	
1982	January	1,546	314	480	398	67	1,873	122
	February	1,476	291	310	327	51	1, 6 99	114
	March	1,523	223	145	289	74	1,528	109
	April	1,566	188	107	257	77	1,527	106
	May	1,583	186	-61	235	43	1,431	108
	June	1,571	192	-109	262	106	1,286	111
	July	1,556	227	- 5	253	37	1,487	111
	August	1,591	125	-44	254	61	1,357	112
	September	1,606	247	33	273	85	1,528	111
	October	1,582	194	92	306	81	1,481	109
	November*	1,603	267	172	370	37	1,634	103
	AVERAGE	1,564	222	101	293	65	1,529	

¹ Ending stocks for 1973 - 1980 are totals as of December 31.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

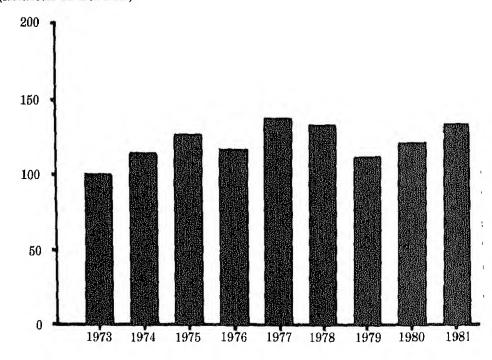
Totals may not equal sum of components due to independent rounding

* See Explanatory Note 5.5.

Note: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

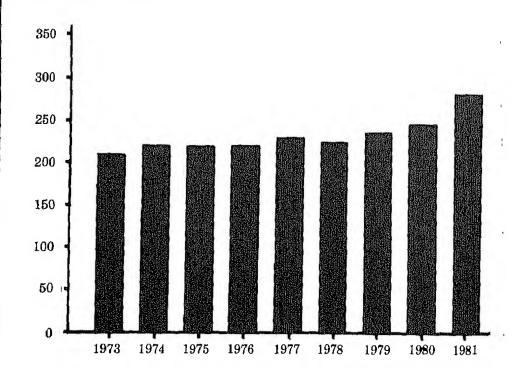
Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Liquefied Petroleum Gases and Ethane Ending Stocks, Annual (Millions of Barrels)



Source table: "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Other Petroleum Products¹ Ending Stocks, Annual (Millions of Barrels)



'Includes natural gasoline and isopentane, unfinished oils, gasoline blending components, jet fuels, kerosene, lubricants, and asphalt. Some gasoline blending components not included prior o 1981.

Source table: "Other Petroleum Products Supply and Disposition."

Legend

Average Stock Range

¹Average stock range based on 3 years of data. See Explanatory Note 2.5.

Source table: "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Legend

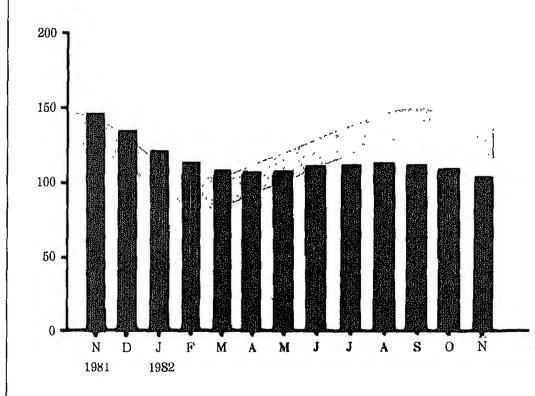
Average Stock Range²

Includes natural gasoline and isopentane, unfinished oils, gasoline blending components, jet fuels, kerosene, lubricants, and asphalt.

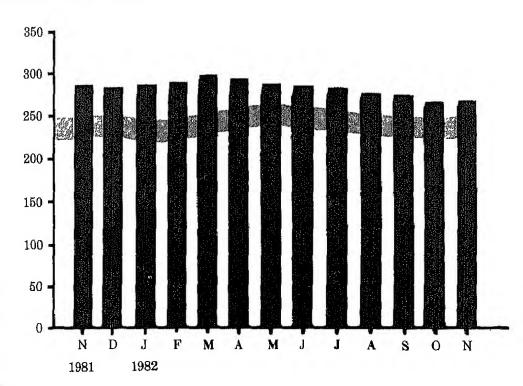
²Average stock range based on 3 years of data. See Explanatory Note 2.5.

Source table: "Other Petroleum Products Supply and Disposition."

Liquefied Petroleum Gases and Ethane Ending Stocks, Monthly (Millions of Barrels)



Other Petroleum Products¹ Endings Stocks, Monthly (Millions of Barrels)



Other Petroleum Products¹ Supply and Disposition

		[Supply			Disposition		Ending Stocks ²
		Total Produc- Tion	Imports	Stock Withdrawai ³	Refinery Inputs	Exports	Products Supplied	
				Thousand Ba	rrels per Day			Millions of Barrels
1973	AVERAGE	3,693	502	-9	750	166	3,270	208
1974	AVERAGE	3,558	432	-28	665	174	3,123	218
1975	AVERAGE	3,424	277 206 205	-2	537	160	3,002	219
1976	AVERAGE	3,643	206	-5 -27 14 -37	524 514 492 352	175 165 167 209	3,145	220
1977	AVERAGE	VERAGE 3,912 VERAGE 4,046	205				3,410	230
1978	AVERAGE		166				3,568	225
1979	AVERAGE	4,153	195				3,749	238
1980	AVERAGE	3,956	210	-23	311	198	3,634	247
1981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2,958	302
	March	3,722	230	-55	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-58	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July	3,852	149	284	791	212	3,282	297
	August	3,876	276	-33	676	219	3,225	298
	September	3,718	285	215	883	176	3,159	291
	October	3,503	241	193	710	227	3,000	285
	November	3,579	262	33	784	154	2,935	284
	December	3,543	243	71	805	223	2,829	282
	AVERAGE	3,739	226	46	723	199	3,088	
1982	January	3,181	240	-102	602	180	2,536	284
	February	3,364	260	-116	646	138	2,724	287
	March	3,485	241	-204	734	161	2,627	294
	April	3,394	287	91	801	204	2,767	291
	May	3,296	309	198	823	210	2,769	285
	June	3,481	315	115	815	216	2,879	281
	July	3,578	391	15	862	187	2,935	281
	August	3,519	329	256	841	202	3,060	273
	September	3,442	365	74	767	213	2,901	271
	October	3,472	367	223	901	266	2.896	264
	November*	3,464	406	-12	824	269	2,766	264
	AVERAGE	3,425	319	50	784	205	2,806	

Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil.
 Ending Stocks for 1973-1980 are totals as of December 31.
 A negative number indicates an increase in stocks and a positive number indicates a decrease. Totals may not equal sum of components due to independent rounding.
 See Explanatory Note 5.6.
 Note: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic Coverage. The 50 United States and the District of Columbia.
 Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from OPEC Sources

	Algeria	Libya	Saudi Arabla	United Arab Emirates	Indonesia	iran	Nigerla	Venezue-	Other OPEC ¹	Total OPEC	Total Arab OPEC ²
					Thousan	d Barrels	per Day				<u> </u>
1973 AVERAGE	136	164	486	71	213	223	459	1,135	106	2,993	915
1974	100	104	400	,,	213	223	459	1,135	100	2,893	9 10
AVERAGE 1975	190	4	461	74	300	469	713	979	88	3,280	752
AVERAGE 1976	282	232	715	117	390	280	762	702	122	3,601	1,383
AVERAGE 1977	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424
AVERAGE 1978	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185
AVERAGE 1979	649	654	1,144	385	573	555	919	645	226	5,751	2,963
AVERAGE 1980	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056
AVERAGE	488	654	1,261	172	348	9	857	481	130	4,300	2,551
1981											
January	341	500	1,284	93	424	0	908	549	27	4,127	2,219
February	381	468	1,122	93	406	0	866	463	92	3,891	2,064
March	352	485	1,027	47	328	0	771	360	54	3,425	1,912
April	263	485	1,034	68	307	0	812	237	39	3.245	1.867
May	393	443	933	17	297	0	664	331	124	3,203	1,796
June	356	380	865	60	367	0	528	248	118	2,922	1,703
July	333	251	1,073	80	340	0	651	466	38	3,233	1,757
August	348	274	1,082	61	377	Ō	321	523	84	3.070	1,765
September	336	154	1,477	96	371	ō	323	359	149	3,264	2,063
October	242	147	1,342	90	427	ō	412	389	172	3,220	1,820
November	210	132	1,270	112	353	ŏ	517	535	56	3,184	1,724
December	176	122	1,045	158	400	ő	684	411	132	3,129	1,502
AVERAGE	311	319	1,129	81	366	0	620	406	90	3,323	1,848
1982											
January	254	161	877	87	273	0	662	376	128	2,818	1,378
February	139	92	692	79	236	Ō	579	347	102	2,267	1,044
vlarch	91	37	555	155	200	0	503	399	91	2,032	860
April	85	0	479	122	215	ŏ	427	411	79	1,818	707
/lay	179	Ō	601	116	236	ŏ	211	414	54	1,811	897
lune	93	ŏ	593	94	215	72	537	361	110	2,075	799
luly	122	ŏ	644	123	327	69	910	349	95	2,640	927
August	170	ŏ	489	133	272	27	542	288	134	2,057	807
September	162	ŏ	432	57	191	21	479	514	52	1.907	659
October	249	7	494	61	227	108	291	496	96	2,029	810
November	247	13	489	47	283	34	480	539	115	2,246	795
AVERAGE	163	28	577	98	243						

Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
 Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.
 Totals may not equal sum of components due to Independent rounding.
 Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.
 Geographic coverage: The 50 United States and the District of Columbia.
 Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from Non-OPEC Sources

	Bahamas	Canada	Mexico	Netherlands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico ¹	Virgin Islands ¹	Other ²	Total
				Tho	ousand Barr	els per Day				
1973										
AVERAGE 1974	174	1,325	16	585	255	15	99	329	465	3,263
AVERAGE 1975	164	1,070	8	511	251	8	90	391	340	2,832
AVERAGE 1976	152	846	71	332	242	14	90	406	300	2,454
AVERAGE	118	599	87	275	274	31	88	422	353	2,247
AVERAGE	171	517	179	211	289	126	105	466	550	2,614
AVERAGE	160	467	318	229	253	180	94	429	484	2,613
AVERAGE 1980	147	538	439	231	190	202	92	431	548	2,819
AVERAGE	78	455	533	225	176	176	88	388	491	2,609
1981										
January	39	543	401	198	150	233	89	494	552	2,701
February	84	546	437	227	163	271	46	481	626	2,881
March	74	472	488	227	93	263	45	370	571	2,603
April	68	412	418	198	139	402	40	365	380	2,423
May	122	365	522	213	105	368	58	344	474	2,573
June	51	353	538	196	124	397	67	262	525	2,513
July	77	382	384	212	178	553	50	206	541	2,583
August	69	378	489	255	123	592	68	184	539	2,698
September	111	423	708	163	169	52B	72	265	661	3,100
October	63	449	669	161	121	351	60	303	562	2,739
November	63	547	628		108					
	70			168		253	76	294	421	2,557
December	, -	501	587	148	125	280	73	367	563	2,714
AVERAGE	74	447	522	197	133	375	62	327	534	2,672
1982	20	500	400	4 M M	100			**		A
January	28	509	426	179	106	346	62	334	425	2,415
February	50	533	489	221	120	132	38	354	487	2,424
March	43	435	503	189	118	293	62	307	479	2,429
April	67	357	467	180	166	247	36	266	682	2,468
May	76	416	767	152	95	516	47	302	603	2,974
June	32	462	797	141	129	539	58	322	673	3,153
July	30	527	783	158	111	433	38	369	674	3,122
August	68	435	854	145	106	520	24	320	627	3,099
September	92	484	897	195	89	631	51	270	744	3,453
October	45	456	682	148	109	666	52	262	783	3,202
November	48	547	860	203	90	623	81	334	694	3,480
AVERAGE	53	469	685	173	113	452	50	313	625	2,931

U.S. Possessions.
 Includes all Non-OPEC countries except those shown above.
 Totals may not equal sum of components due to independent rounding.
 Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.
 Geographic coverage: The 50 United States and the District of Columbia.
 Sources: See "Sources" at the end of this section.

Sources

- 1973 through 1976: Bureau of Mines, U.S. Department of the Interior, "Petroleum Statement, Annual" and PAD Districts Supply/Demand, Annual," Mineral Industry Surveys.
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, "Monthly Petroleum Statistics Report," (unleaded gasoline category).
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual, "Energy Data Reports.
- January 1981 through December 1981: Energy Information Administration, U.S.
 Department of Energy, "Petroleum Supply Annual."
- January 1982 through November 1982: Detailed statistics in this issue. (See Explanatory Notes 5.1 through 5.6).
- December 1982: Estimates based on EIA weekly data (except domestic crude oil production). See Explanatory Note 2.2).
- January 1982 through December 1982: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey. (See Explanatory Note 2.7).

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Detailed Statistics

Table 1. U.S. Petroleum Balance, November 1982

	Current	Month	Year-to	- Data
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
Crude Oil (Including Lease Condensate)				
Field Production				
(1) Alaska		1,667	E 567,215	1,698
(2) Lower 48 States		7,024	E 2,329,297	6,974
(3) Total U.S	E 260,710	8,690	E 2,896,512	8,672
Net Imports (4) Imports (Gross Evaluating SDD)	440.400	0.000	4 445 000	0.000
(4) Imports (Gross Excluding SPR)	· ·	3,683	1,115,082 56,362	3,339
(6) Exports		180 262	80,309	169 240
(7) Imports (Net Including SPR)		3,601	1,091,135	3,267
Other Sources	100,010	0,001	7125 17100	0,20,
(8) SPR Withdrawal (+) or Addition (-)	-5,371	-179	-59,622	-179
(9) Other Stock Withdrawal (+) or Addition (-)	-5,325	-177	7,437	22
(10) Used Directly and Losses	-1,560	-52	-20,807	-62
(11) Unaccounted for 1	-4,239	-141	28,823	80
(12) Total Other Sources		-550	-46,169	-138
(13) Crude Input to Refineries	352,232	11,741	3,941,478	11,801
(13) = (3) + (7) + (12)				
Natural Gas Plant Liquids (NGPL)				
(14) Field Production	49,017	1,634	516,391	1,546
(15) Imports ?	1,179	39	7,523	23
(18) Slock Withdrawal (+) or Addition (-) 2	-995	-33	3,134	9
(17) Total NGPL Supply	49,200	1,640	527,048	1,578
Other Liquids Unfinished Oils and Gasoline Blending Components, Total				
(18) Stock Withdrawal (+) or Addition (-)	3,242	108	0.057	07
(19) Imports	6,730	224	8,857 56,271	27
(20) Other Hydrocarbons and Alcohol New Supply (Field Production)	1,595	53	17,681	168 53
(21) Refinery Processing Gain 1	17,122	571	174.092	53 521
(22) Crude Used Directly	1,513	50	19,798	59
(23) Total Other Liquids	30,202	1,007	276,699	828
(23) = (18) through (22)		.,	,	O.,O
(24) Total Production of Products 3	431,634	14,38B	4,745,225	14,207
Net Imports of Refined Products 3				
(25) Imports (Gross)	48,000	1,600	463,519	1,388
(28) Exports	15,723	524	190,548	571
(27) Imports (Net)	32,277	1,076	272,971	817
(28) Total New Supply of Products	463,911	15,464	5,018,196	15,025
(28) = (24) + (27) (29) Refined Products Stock Withdrawal (+) or Addition (-) 3	-12,969	-432	68,687	206
(30) Total Petroleum Products Supplied for Domestic Use	450,942	15,031	5,086,883	15,230
	400 700		- 100 57:	
(31) Finished Motor Gasoline	196,783	6,559	2,183,254	6,537
(32) Naphtha-Type Jet Fuel	6,348	212	69,192	207
(33) Kerosene-Type Jet Fuel	25,076 4,196	836 140	266,448	798
(34) Kerosene	74,248	2,475	40,985	123
(36) Residual Fuel Oil	47,913	1,597	888,301	2,660
(37) Liquefled Petroleum Gases and Ethane	49,028	1,634	568,697 608,341	1,703
(38) Other	54,373	1,812	668,461	1,522 2,001
(39) Total Reclassified 1	-7,023	-234	-106,792	-320
(40) Total Product Supplied	450,942	15,031	5,086,885	15,230
(40) = (31) through (39)	7.2.7.		3,000,000	10,200
Ending Stocks, Ali Oils				
(41) Crude Oil and Lease Condensate (Excluding SPR)	356,027	_	356,027	
(42) Strategic Petroleum Reserve (SPR)	289,963		289,963	
(43) Unfinished Oils	111,679		111,679	
(44) Gasoline Blending Components	41,243		41,243	
(45) Natural Gasoline and Unfractionated Stream	12,385		12,385	
(46) Finished Refined Products 3	643,858		643,858	d-Vigue
(47) Total Stocks	1,455,155		1,455,155	
1 A helenolog item				

<sup>A balancing item.
Includes isopentane, natural gasoline, unfractionated stream, and plant condensate only.
For products included see Explanatory Note 5.7.
E = Estimated.

Note: Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes 1, 2, and 5.7.</sup>

Table Z. Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barrels)

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Commodity	Fig.			Stock		Crude		TODING CONTROL		-
	Produc- tion	Reinery Produc- tion	Imports	With- drawal (+) or Addi- tion (-)	counted For Crude Oil1	Used Directly and	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 260,710	0	115,876	-10,696	4,240	-1.560	352 242	7		
Natural Gas Plant Lightle and Libbs	4		•			}	COLINGE	8CD*/	0	645,990
Natural Gasoline and Isopentane	5 530	* (9,180	4,161	0	0	17,212	1,115	51.498	115 BES
Unfractionated Stream	936	•	0 0	\$ 5	5 (0	5,111	0	2.444	905 9
Plant Condensate	040		5	אנה. אנה י	٥	٥	0	0	; ;	0,020
Liquefied Petroleum Gases and Ethane	40.305	7.7.7	5 5	181-	0	0	1,008	0	9 °	1,1
Ethane	202,04	4//,	ביטט'א	5,156	0 1	0	11,093	1,115	49.028	797.501
Propane	12,616	1	002,	-246	0	0	34	(8)	9 725	204,201
:	0.0.0	1/8//	3,074	3,816	0	0	134	469	677.70	0.400
Butane-Pronane Medines	882,0	2/1-	1,902	2,943	0	0	7,392	646	27,77	37,871
Ethane-Prospe Michiga	28.0	27	1,161	-36	0	٥	368	} <	6,950	19,792
Isobitane	6,373	o ;	609	-1,302	0	0	0	• •	7 500	395,1
· that · t · unus the tree to the continue southers and recommend in the later of the continue	3,183	-29	0	-19	0	0	3,165	0	08, -	400.0
Other Liquids	100	•	0000						3	, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Other Hydrocarbons and Alcohol	1 505)	6,730 0	3,242	0	0	18,590	0	-7.023	150 000
Unfinished Oils	080,	-	0 !	2	0	0	1,575	0		24,361
Motor Gasoline Blending Components	0	o c	4,907	1,659	0	0	12,040	0	-5.474	111 679
Awation Gasoline Blending Components	• •	0 0	1,823	775,1	φ.	0	5,027	0	-1.627	40.681
***************************************	•	>	0	92	0	0	-52	0	78	25.5
Finished Petroleum Products	306	397 389	00000	7	•					3
Finished Motor Gasoline	7.7	188 1 28	20,000	-18,126	D (1,513	0	14,608	406,467	540.39
Finished Leaded Motor Gasoline	8	90,855	3,694	6,753	-	0	0	343	196,783	189,362
Finished Unleaded Motor Gasoline	ო	97.185	2,500	9 669	> c	5 (5 (343	93,340	95,678
Gasohol	0	88	9	000	> 0	5 (o (0	103,356	93,633
Finished Aviation Gasoline	55	670	ક ક	- 80E	o c	> c	-	0	87	51
Naprima-iype Jet Fuel	0	5,993	,	355		.	> (.	417	2,520
Kerosene-Type Jet Fuel.	0	24,496	861	1 2 6	•	o c	5 ((s)	6,348	6,035
Kerosene	8	4,308	1.011	-1 125	• •	o c	5 (269	25,076	34,508
	64	85,903	4.229	-15 405	> C	2	> (- !	4,196	11,345
Hesiqual Fuel Oil	0	29,668	25.297	-2 857	o c	4 6	> (715	74,248	185,59
Naphtha < 400 Deg for Petro. Feed, Use	0	4,567	558	197	o c	8,2,	5 (5,475	47,913	66,431
Other Oils > 400 Deg. for Petro Feed. Use	0	6,748	2	2 5	> 0	> 0	5	7	4,864	2,000
Special Naphthas	09	1.266	828	341	0 0	> 0	ɔ (222	6,238	2,194
Lubricants	0	4.450	751	5	0	5 (0	4	2,454	3,46
Waxes	0	446	22	† \$	5 6	o (0	395	4,803	12,648
Petroleum Coke	0	12.714	· c	ָרָ מְּיִ בּיִי	- 6	-	0	13	496	754
Asphait	0	9,705	190	5	> c	> (φ (6,716	5,147	6,693
Road Oil	0	24			o (D (0	ထ	8,925	14,091
Still Gas	0	15.852		ų c	5 (D 1	0	0	23	'n
Miscellaneous Products	116	2 444	·	7	5 6	Э (0	0	15,852	
		ī	-	<u> </u>	>	0	0	36	2,685	2,704
Total	311,322	405,156	171,786	-21,419	4,240	7	388,034	23.582	450 942	4 455 455
1 Unaccounted for crude oil is a balancing item.										1,004,1
с Total equals relinery ruel use and loss. (s) Less than 500 harrels										
* Estimated.										
Note Total may not equal sum of components due to indeed to	1	i,								
or most and definitions again of components and to inde	pendent rou	nding.								
ANTICACION DEPONDE DEPONDE CON CONTRACTOR INTO TAKEN										

Table 3. Year-to-Date Supply and Disposition Statistics of Crude Oil and Petroleum Products, January - November 1982 (Thousands of Barrels)

			ης.	Supply				Disposition		
Commodity	Field Produc- ton	Refinery Produc- ton	Imports	Stock With- drawal (+) or Addi- ton (-)	Unac- counted For Crude Oil1	Crude Used Directly and Losses ²	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 2,896,512	0	1,171,444	-52,185	26,823	-20,807	3,941,478	80,309	0	645,990
Natural Gas Blant Limites and I DGs	544 544	67 A CO	84 827	34 318	c	c	120 121	140	326 363	445 050
Natural Gasoline and Isonentane	800 89	troise	5,914	3.067	o C	o c	50,13	20,12	17,676	5,932 6,326
Unfractionated Stream	154	0	Q Q	138	٥	0	2 E	0	284	4 414
Plant Condensate	11,348	0	1,710	-71	0	0	12,932	0	200	1645
Liquefied Petroleum Gases and Ethane	431,833	90,654	74,304	31,184	0	0	97.778	21,857	508,341	103,467
Ethane	92,112	1,418	15,682	491	٥	0	1,344		107,375	5,406
Propane	153,989	84,299	21,320	17,688	0	0	1,326	10,392	265,578	57,870
Butane	73,378	3,510	19,366	7,462	0	0	57,139	11,464	35,113	19,792
Butane-Propane Mixtures	1,376	1,413	8,065	357	0	0	1,844	0	9,366	1,395
Ethane-Propane Motures	74,160	0	9,871	6,780	0	0	46	0	90,765	9,654
Isobutane	36,819	4	0	-612	0	0	36,079	0	142	9,350
Other Liquids	17,681	0	56,271	8,857	0	٥	189,601	0	-106.792	152.922
Other Hydrocarbons and Alcohol	17,681	0	0	ማ	0	0	17,678	٥	0	211
Unfinished Oils	0	0	43,235	-331	0	0	113,034	0	-70,130	111,679
Motor Gasoline Blending Components	٥	0	13,036	8,851	0	0	59,446	0	-37,559	40,681
Aviation Gasoline Blending Components	0	0	0	340	0	0	-557	0	268	351
Elnished Behralam Braducte	4 840	A 28A 6A8	280 215	37 503	c	40 700	•	169 601	4 667 333	100 000
Enished Motor Caeoloo	7,4	2 4 1 2 2 2 7	69,251	707 77	o c	06161	-	100,001	4,00,1324	100,000
Finshed Leaded Motor Gasoline	223	1.003.052	39,689	12.407	0	0 0	0	6.987	1,1048,684	189,362
Finished Unleaded Motor Gasoline	23	1,109,101	22,662	1,692	0	0	0	0	1,133,478	93,633
Gasohol	0	1,084	0	8	0	0	0	0	1,092	5
Finished Aviation Gasoline	662	7,836	Ø	213	0	0	0	0	8,713	2,520
Naphtha-Type Jet Fuel	0	92,779	1,682	1,019	0	0	0	282	69,192	6,035
Kerosene-Type Jet Fuel	ν ;	260,320	7,721	497	0 (0 1	0	1,098	266,448	34,508
Kerosene	æ %	37,531	4,032	-303	-	0 437	0 0	314	40,985	11,345
Designate Fuel Oil	9 0	967 038	252 510	11 561	-	3,454	o c	70 677	568 607	165,532
Nachtha < 400 Deg. for Petro. Feed.	0	50.626	16.742	469	0	0	> 0	1.317	56,520	200
Other Oils > 400 Dea for Petrochem, Feedstock	0	88,799	0	444	٥	0	a	6,568	81,787	2,194
Soecial Naphthas	843	17.190	6,635	504	0	0	0	1,727	23,445	3,460
Lubricants	0	48,012	3,302	1,656	0	0	0	5,573	47,397	12,648
Waxes	0	4,686	432	\$	Φ	0	0	23	4,803	754
Petroleum Coke	0	136,008	0	-2,191	٥	0	0	50,516	83,301	6,693
•	0	112,056	1,671	5,496	0	0	0	285	118,938	14,091
Road Oil	0	601	2	នុ	0	0	0	0	575	\$
Still Gas	0	185,438	0	0	0	0	0	0	185,438	0
Miscellaneous Products	2,733	26,468	21.9	76	0	0	0	424	29,529	2,704
	3 430 586	4 475 302	1 698 757	28.493	26.823	-1.009	4.301.210	270.857	5.086,885	1,455,155
1001 mm			- m elemants							

¹ Unaccounted for crude oil is a balancing item.
2 Total equals refinery tuel use and loss.
E Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

ייייד אי טמוץ Average Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousand Barreis per Day)

			Š	Supply					
•				Stock				Disposition	
Commodity	Preid	Refinery		With-	Unac-	Cade			
	ton	tion	imports	drawal(+) Addi-	For Crude	Directly	Refinery Inputs	Exports	Products Supplied
Crude Oil finclinging loans				fion(-)	5	Losses2			
(manually lease condensate)	€ 8,690	0	3.863	-367	***				
Natural Gas Plant Liquids and LRGs	1				141-	-52	11,741	262	٥
Natural Gasoline and Isopentane	1,624	259	306	139	-	c	i		
Unitactionated Stream	218	0	33	~	· c	> ¢	574	37	1,717
Plant Condensate	<u> </u>	0	0	· 8	> c	5 6	671	0	8
Liquefied Petroleum Gases and Ethana	3	0	7	3 7	> c	5	0	0	•
Ethane	1,343	259	267	172	9 0	> (ਲ	0	9
Propane	230	2	42	. ac	> c	5 (370		1,634
Butane	454	262	102	12.	> 0	3 (-	(S)	324
Butane-Propane Maxures	210	φ	8	3	> 0	0	4	16	926
Ethane-Propane Mixtures	*	2	39	3 7	> 0	0	246	ន	8
Sobutane	279	0	8	9	o c	0	12	0	32
	106	٦	0	7	> c	0 (0	0	256
Other Uquids				•	>	5	505	٥	7
Other Hydrocarbons and Alcohol	33	0	224	108	•	•			
Unfinished Oils	8	0	0	7	> c	9 (620	0	-234
Motor Gasofine Blending Components	0	0	25	. 55	> 0	> •	25	0	0
Aviation Gasoline Blending Components	0	0	61	3 8	> 0	0	401	0	-182
the construction of the co	0	0	0	} -	> c	۰ ۵	168	0	\$
Finished Petroleum Products				-	5	0	လု	0	co
Finished Motor Gasoline	9	13,246	1,333	909	c	ł			
Finished Leaded Motor Gasoline	7	6,271	500	6	> c	ጽ '	0	487	13,549
Finished Unleaded Motor Gasoline		3,028	123	, ,	> <	0 (0	Ŧ	6,559
Gasohol	(3)	3,239	8	2 8	-	0 (0	#	3,111
Finished Aviation Gasoline	0	ო	0	9	> c	÷ •	0	0	3,445
Naphtha-Type Jet Fuel	8	ន	(3)) F	> c	o (0	0	က
Kerosene-Type Jet Fuel	0	50	0		> c	> (0	0	7
Kerosene		817	29	: (S)	> 0	> (0	<u>(s)</u>	212
Distillate Fuel Oil	(s)	4	8	-37	o c	٥,	٥	Ø	836
Residual Fuel Oil		2,863	141	-514	> c	o (0	(2)	5
Naphtha < 400 Deg. for Petro. Fred 11ce	0	686	843	4	> c	χo (0	24	2,475
Other Oils > 400 Deg. for Petro Feed 11co	0	152	19	3 4	> c		0	182	1,597
Special Naphthas	0	225	0	(8)	> c	٥ (0	~	162
Lubreants	5	42	8	5	.	o (0	17	208
Waxes	0	148	%	(8)	> <	o (0	-	80
Petroleum Coke	0	15	, m) (e	> c	0 (0	13	8
Asphalt	0	424		28	> 0	o (0	-	17
Road Oil	0	323	o co	3 6	-	0	0	224	172
Still Gas	0	-) c	30	5 (0	0	(3)	24
Miscellaneous Products	0	528	- C	ē)	٥	0	0	0	ì
*** * *** ********** ** * *************	4	81	(8)	> 4	o (0	0	0	528
otal			C	Û	5	0	0	-	6
	10,377	13,505	5,726	-714	-141	¢			
Unaccounted for crude oil is a balancing item				, - -	•	7	12,934	786	15,031

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Less than 500 barrels per day.
 E = Estimated not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Dally Average Supply and Disposition of Crude Oil and Petroleum Products, January - November 1982 (Thousand Barrels per Day)

			Ž.	Smok				Deposition	
1.			100					CASDOSIGOR	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal(+) Addi- ton(-)	Unac- counted For Crude	Crude Used Directly and Losses2	Refinery	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,672	0	3,507	-156	98	-62	11,801	240	0
Natural Gas Plant Liquids and LRGs	1,532	27.1	245	103	0	0	209	65	1.576
Natural Gasoline and Isopentane	204	0	17	on	0	0	178	0	ß
Unfractionated Stream	(s)	0	0	(s)	0	0	(s)	0	-
Plant Condensate	8	o į	2	(<u>s</u>)	0	0	33	0	(8)
Liquetted Petroleum Gases and Ethane	1,293	27.1	222	. 93	0 (0 (293	99	1,522
Drivana	270	25.9	4 4	T &	0	0 0	∢ •	®	321
Difference of promoter and promoter and promoters and promoters of promoters and promo	200	7 +	t 2	3 8	0 0	> c	4 [68.
Rubba-Propage Michigan	4	4	8 %	4 -	0 0	0 0	- «	ţ <	66
Fitane-Probane Mixtures	222	- 0	3 8	- 02	o c	o c	S	o c	87.6 67.6
	110	(s)	90	24	0	00	108	0	(s)
Other Liquids	53	0	168	27	o	0	568	c	1230
Other Hydroxarboss and Alcohol	: E	· c	•	S	· c	· c	3 2	• c	3
Hefushed Oils	30	• =	5	7	o C	o C	3 8	> C	-210
Motor Geoline Riendon Componente	o c	0 0	3 8	- ec	3 C	9 6	9 5	> <	017-
Aviation Gasoline Blending Components	0	0	3 C	3 -	o c	0 0	0 6	o c	7.0
	•	•	,	-	,	•	y I	•	n
Finished Petroleum Products	15	13,128	1,165	112	0	59	0	505	13,974
Finished Motor Gasoline	0	6,327	187	42	0	0	0	ដ	6,537
Finished Leaded Motor Gasoline		3,003	119	37	0	0	0	21	3,140
Finished Unleaded Motor Gasoline	® •	3,321	සු (පි	ហ :	0	0	0	0	3,394
Gasobol	o (က	0	<u>(</u>	0	0	ο.	0	m :
Finished Awation Gasoline	N	S ;	(S)	-	0	0	0	0	56
Naphtha-Type Jet Fuel		200	ın (r) ·	0	0	0	-	207
Kerosene-Type Jet Fuel	@ 9	6//	8 8	۲,	0	0 (0 (m ·	798
Nerosene	@ &	2112	2 2	7	0	ခင့်	۵ ۵	- 8	123
Poeidial Fiel Oil		1.072	759	5 5	0 0	9	o C	8 <u>6</u>	702
	. 0	152	6	} ~	0	0	0	1	. 66
Other Oils > 400 Deg. for Petro. Feed. Use	0	266	0	T	0	0	0	20.	245
Special Naphthas	က	5	20	N	0	0	0	ro.	2
Lubricants	0	144	10	LO3	0	0	0	17	142
Waxes	0	4	-	(s)	0	0	0	-	14
Petroleum Coke	a	407	0	-7	0	0	0	151	249
Asphalt	0	335	ຄ	16	0	0	0	***	356
Road Oil	0	2	(S)	<u>©</u>	0	0	٥	0	7
Still Gas	0	555	۵	0	0	0	0	0	555
Miscellaneous Products	00	79	CI	(S)	0	O	Þ	-	88
	10 271	13 300	5005	78	Ca	"	42 878	118	16 220
i 0081	10,57	660401	2,000	3	8	?	14,010		00760

Unaccounted for crude oil is a balancing item.
 Total equals refinery tuel use and loss.
 Less tran 500 barrels per day.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. P y and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barrels)

				Supply							
				Stock					Disposition		
Commodity	Produc-	Retinery		With	Unac-	Crude					
	tion	tion	Imports	Addi	For Crude	Directly	Net Receipts	Refinery Inputs	Exports	Products	Ending Stocks
Crude Oil Graduate				tion (-)	5	Losses				Doubles	
(Hichaing lease condensate)	E 2.651	•									
Natural Gas Plant Llouids and 1 Do.	Ī	•	32,039	-387	-917	0	2.059	36 436	•		
Liquefied Petroleum Gases	929	1.165	720	ļ				35,435	0	0	18,724
Ethane	444	1 185	87/	-17	0	0	2 684				
Other Productes	560	3	086	9	0	· c	4,00	720	4	5,225	5.443
	19.5	5 ((8)	0	c	• •	100,7	202	Q	4.617	5 408
Other Louis	3	5	149	6	• =	> c	0	0	0	299	1
	•				•	5	0	15	a	310	2
The Tydrocarbons and Alcohol	20 6	0	2,504	#239	•				•	2	7
	86	0	0	4	> c	Φ.	963	2,263	c	4 062	
Motor Gasoline Blending Components	0	0	1,763	100	> 0	0	0	102	•	20.	18,840
Aviation Gasoline Blending Components	0	0	741	200	5 (0	963	3.293	o c	2 6	2
	0	0		j.	0	0	0	1136	> 0	200	14,835
Finished Petroleum Products		•	•	4	0	0	· C	3	5 (1,448	4,990
Finished Motor Capalian	44	20 040					•	4	0	0	0
Total desource	: 3	20,048	34,629	-21,334	c	•					•
•	‡ :	16,591	4,976	-2.201	•	- (84,969	0	191	136 964	2000
Chilished Unleaded Motor Gasoline	44	7,120	2.740	1 203	> 0	5	45,148	0	(8)	20000	414,031
casonol	0	9,471	2 226	200	0	O	20,211	· c	0.0	\n.'+0	61,166
Finished Aviation Gasoline	0		2,4,00	7 P	0	0	24.937	•	e)	28,911	28,780
Naphtha-Type Jet File	0	, č	5	ņ	0	0	•	•	.	35,651	32,379
Kerosene-Type let City	c	2 0	(8)	-190	0	· c	0 0	> (0	ጥ	7
Kerosene		40	0	157	0	• •	9 6	0	0	-50	516
	o c	6/0	861	-540		> 0	543	0	(S)	1.152	2,5
	> 0	332	1.011	-1311	0 0	> (10,442	0	0	11 349	0 0
residual Fuel Oil	0	10,248	3.731	12.067	> (0	1,223	0	(8)	7 10 1	4,0,0
Naphtha and Other Oils for permonent	0	4.050	22 700	20010	.	0	22,789	_	ξ.	407,	5,764
Feedstock			1, 6	080'2	0	0	2.859	• •	- ,	5,000	88,691
Special Naphthas	0	350	5	;				•	-	26,093	36,369
Lubricants	Q	2	ò	96-	0	0	QP	•	!		
Waxes	-	71.7	987	210	0	c	6.00	5 (47	352	198
Petroleum Coke	0	250	717	-216	0	· c	3 6	5	2	283	840
And	> (96	25	•	· c	0	000	0	107	1346	0.00
Jensky	0	1,187	c	-24B	> 0	> (ნ	0	u:	9	5,5,5 5,6,6
Hoad Oil	0	2,321	100	240	5	0	0	C	9 0	8 6	175
Still Gas	0		g,	145	0	0	390		, ·	999	1,174
Miscellaneous Products	0	1 600	0	٥	0	o	}	o c	4	2,491	3,768
***************************************		30,	0	0	0	- C) c) (٥	0	C
Total	>	244	-	ņ	0	· c	÷ 6	0 (0	1,663	C
	3 720				1	,	7	٥	17	1,251	413
1 Incorporate 1 F	2,140	40,013	69,901	-21,988	1917	c	000				?
2 Total of the crude oil is a balancing item					:	>	30,672	37,918	23	143.252	256 920
loral equals refinery fuel use and leading											600,000

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate
 Estimated.
 Note: Total may not equal sum of components due to independent rounding
 Sources and estimation procedures. See Explanatory Notes on Data Collection and Estimation.

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Table 7. PAD District II Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barrels)

				Supply					Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Crude Used Directly and Losses ²	Net Receipts	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 31,299	0	18,872	-3,583	32,374	op T	1,574	79,320	1,207	0	77,744
Natural Gas Plant Liquids and LRGs	9,401	2,022	5,056	851	00	۵۵	4,244	5,584	60 0	15,983	31,450
Ethane Perdieum dases Ethane Communication of the Perdieum Communication of the Perdieum Communication of the Perdieum Communication of the Communica	2,596 -1,198	2,003 17 0	1,256	433 433 -1.318	900	900	3,009 0	4,217 0 1.367	0 C) C	3,135 3,436 -2,548	25,335 1,760 4,355
		,	•		•			<u>.</u>	1	1	
Other Uquids	148	o c	583	793	00	o c	749	2,844	Ф С	-571	28,321
Unfinished Oils	0	0	250	327	0	0	0	989	0	-109	19,991
Motor Gasoline Blending Components	0	0	332	466	0	0	749	2,010	0	-463	8,138
Aviation Gasoline Blending Components	0	0	0	38	0	0	0	38	0	0	5
Finished Petroleum Products	t.	89,825	724	802	0	0	18,321	0	621	109,064	127,763
Finished Motor Gasoline	0	48,883	0	2,520	٥	0	12,514	0	51	63,868	55,883
Finished Leaded Motor Gasoline	0	25,458	0	592	0	0	6,437	0	51	32,436	29,761
Finished Unleaded Motor Gasoline	0	23,405	2	1,922	0	0	6,077	0	0	31,406	26,085
Gasohol	o	20	0	9	0	0	0	0	0	56	37
Finished Awatton Gasoline	0 (100	0 1	φ:	0	0	121	0	0	161	292
Naphtha-Type Jet Fuel		922	0 0	-33	0 0	0	189	0 (0 (1,078	1,328
,		3,004	9 6	3 E	o C	0 <	1,530	-		5,181	7,075
Distillate Fuel Oil		20,757) (S)	-1.001	0	o	3.649	0	(S)	23.406	45.257
Residual Fuel Oil	0	2,693	514		0	0	483	0	Φ ;	2,802	4,996
Naphtha and Other Oils for Petro Feed	0	1,370	66		0	0	47	o	35	1,531	261
Special Naphthas	•	398	92		0	0	90	0	-	556	662
Lubneants	0	764	ω		0	0	350	0	12	985	1,926
Waxes	0	42	ო		0	0	0	0	(s)	4	89
Petroleum Coke		3,014	0	-245	Ö	0	0	0	522	2,247	2,033
Asphalt	0	3,243	Ø.	-540	0	ο ·	107	٥	₩ (2,819	4,771
Hoad Oil		,	0	0	0 '	0 (> (0 (0 1	ກຸ	20
Still Gas Miscellaneous Products	0 2	3,115	00	0 %	00	00	0 75	00	0 (s)	3,115 225	0 22
	10 064	54947	36 30	4 437	179.00	q	888 76	87 748	4 836	354 454	965 970
10tBl	40,001	11,041	65,63	1,13	26,514	ì	41,000	2,10	2000	2442	400,410

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels

 Estimated.

 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

rame c. PA. visufct III Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barrels)

				Noons					Disposition		
Commodity	Field Produc- tron	Referency Produc- tion	Imports	Stock With- drewed (+) or Addition (-)	Unac- counted For Crude Oil	Chude Used Directly and Losses2	Net Receipts	Referency	Exports	Products Supplied	Ending Stocks
Crude Oil (Including lease condensate)	E 126,252	0	57,447	-11,431	-23,881	-14	16,269	164,642	0	٥	454,162
Netural Gas Plant Liquids and LRGs	35,191	3,535	2,145	3,352	0	0	925,9-	9,501	926	27,270	75,547
Liquelisa Petroleum Gases	21,689 5,800	3,515 20	1,167	2,783	00	00	-5,657 0	5,100 8,	926 (s)	17,471 5.973	84,296 3,646
Other Products3	7,702	٥,	978	385	φ	0	698	4,367	0	3,826	7,605
Other Liquids	617	0	3,407	2,296	0	٥	-1,712	11,134	0	-6,326	88,670
Other Hydrocarbons and Alcohol	817	0	0	On ;	0	0	0	826	0	0	108
Motor Georgine Riondon Components	0	0	2,893	681	00	00	66. 7.	6,423	0 0	-3,812	48,909
Aviation Gasoline Blending Components	90	0 0	0	250,1 21-	0	00	0	96-	• •	8	508
Finished Petrolesim Braducte	100	400 000	000	707.0	•	•	400	•	1	300 10	125 247
Finished Motor Gasolina	Š	163,022	2,862	3,491	3	~ <	171,/UL-	3 C	086	20 574	48.046
Finished Leaded Motor Gasoline	90	40.775	<u> </u>	5000	0 0	9 0	-27.727	0	280	12,977	24,474
Finished Unleaded Motor Gasoline	0	46,091	0	2,479	0	0	-31,974	٥	0	16,596	23,572
Gasohol	0	-	0	0	0	0	0	O	0	•	0
Finished Awatton Gasolme	55	323	0	-19	0	0	-288	0	0	4	716
Keroose The Letter	0	2,521	٥	488	0 (0 (-868	0	0 1	2,141	2,545
Karosana	0 (13,365	00	55 4	00	5 C	-12,778	2 0	0 0 0	1 637	200
Distillate Fuel Oil	٧	40,791	330	50	0	· 	-26,692	0	304	14,286	36,858
Residual Fuel Oil	0	13,484	1,666	-558	0	0	-2,851	0	2,127	9,614	16,141
Naphtha and Other Oils for Petro Feed	٥	8,596	350	-115	٥	0 (8	0 (509	8,235	3,037
Special rapidities	2 0	832	£. 5	3 0	> 0	-	200 a	o c	8 6	383	6.140
Waxes	-	2,400	0 0	1 1 1	o c	o c	1 5	,	3 4	35,7	456
Petroleum Coke	o c	777	9 0	į	0 0	0	0	0	3,486	1,285	802
Asphalt	0	2.610	5,2	ω ω	0	٥	497	0	(B)	2,178	3,077
Road Oil	٥	0	0	~	0	0	0	0	0	-	-
Still Gas	٥	7,326	0	0	O	0	0	0	0	7,326	٥
Miscellaneous Products	83	1,723	0	173	O	0	-887	0	15	1,083	1,852
Total	162,467	192,557	65,882	-2,292	-23,881	-13	-99,140	185,277	8,154	102,149	731,625

1 Unaccounted for crude oil is a balancing item
2 Total equals refinery fuel use and loss.
3 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate
5 Less than 500 barrels
6 Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation

Table 9. PAD District IV Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barrels)

Production Pro	0 1,738 13 622 13 570 0 0 0 52	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Orude Used Directly	Net	Refinery	Exports		Ending
2,278 113 893	pai	-1.092		and Losses2	Receipts	madi ii		Supplied	2000
ds and LRGs 2,278 SeS 893 893 893 1,377 1,377 4 Alcohol 39 G Alcohol 39 G Alcohol 43 B Components 24 Care and a components 24 B Components 24 Casoline 24 Ditro Gasoline 3 Ime 0 Ime 0		-	-4,888	٣	0	12,837	Q	0	12,885
Ses 893 1,377 1,377 4 Alcohol 99 G Components 99 d ducts 69 and according 69		87	0	O	-399	578	0	1,948	1,351
d Alcohol	25 0	န	0	0	-33	435	0	1,075	1,019
d Alcohol	000	(s) -55	00	00	0 -366	143	00	8 865	(s) 332
d Alcohol		-123	c	5	c	-310	c	295	4 610
nts		2	.	c	3 C	200	•	3	6 C
And the state of t	0	115	0	0	0	-244	0	359	2.733
43	0	-238	0	0	0	-114	0	-124	1,886
24 24 24 24 24 24 24 24 24 24 24 24 24 2	0 0	0	Ö	Ó	0	0	0	0	0
24 24 24 24 24 24 24 24 24 24 24 24 24 2	50	-674	0	80	180	0	8	12.836	12,302
24.		482	0	0	205	0	0	6.784	5.276
e 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		402	0	0	-161	0	0	4,000	3,276
		8	0	0	366	0	0	2,781	1,999
		0	0	0	0	0	0	ო	-
0 0 0		8	0	0	on	0	0	31	55
0 0		47	0	0	-192	0	0	207	346
0	31 0	-14	0	0	578	0	0	1,095	623
		ĸ	0	0	0	0	0	\$	8
0 3,409	(s) 60	40	0	0	420	O	0	3,029	3,509
0	23	35	0	ω .	0	0	0	393	513
	0 +	ه د	o c	00	o c	o c	(s)	(S)	ο «
		1 7	0	0	٥	0	(s)	23	69
0		φ	0	0	0	0	0	15	2
	0 66	-52	0	٥	0	0	છ	247	713
0		-171	0	0	0	0	-	405	1.14
0		ო	0	0	0	0	0	ო	0
0		0	0	0	٥	0	0	473	0
15		(s)	0	0	0	0	9	ð.	2
Total 19,447 13,393 2	93 2,361	176,1-	1,888	c	-219	13,096	~	15,020	31,157

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Includes natural gasoline, isoperitane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 8. PAD District III Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barrels)

				Supply					Dienoettion		
Commodity	Field Produc- bon	Refinery Produc- tion	Imports	Stock With- strewal (+) or Addi- tion (-)	Unac- counted For Crude Oilt	Grude Used Directly and Losses2	Net Receipts	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (Including lesse condensate)	E 126,252	0	57,447	-11,431	-23,881	4 1-	16,269	164,642	0	0	454,162
Natural Gas Plant Liquids and LRGs	35,191	3.535	2,145	3359	c	•	26.2.3	6	ş		
Liquefied Petroleum Gases	21,689	3,515	1,167	2,783	9 0	c	5,657	2,30	9 98	27,270	75,547
Ethane	5,800	8	٥	187	0	0	0	? ? %	(8)	1,4,71 670 R	2 646
Outer Floaticiso	7.702	0	978	382	o	O	698 P	4.367	•	3,826	7,605
Other Liquids	817	0	3,407	2.296	•	c	-1 712	11 424	¢	9000	
Other Hydrocarbons and Alcohol	817	0	0	6	0	0	0	826	òc	٥٠٠٥	2/9/99
Motor Cooperation Provided Pro	0	0	2,893	681	0	0	, g	6,423	0	-3.812	48.909
Awahan Gazaline Diopelan Components	0 0	0 (514	1,622	0	0	-749	3,981	0	-2.594	17 444
ANAMON GASONING DIGITAL COMPONENTS	0	0	0	-16	o	0	O	96	O	88	209
Finished Petroleum Products	207	180 022	0 000	404 6	(•					
Finished Motor Casoline		20,00	4,004 (a)	1000	5 (,	-107,177	0	7,228	81,205	135,247
Figure of London Mater Constitute	> c	00'00'	E 1	2,088	0	0	-59,701	0	280	29,574	48,046
Elashod Hattadad Matter Openha	> <	40,775	(s)	503	0	0	-27,727	0	230	12,977	24,474
Casobol	9 0	160'04	0	2,479	0	0	-31,974	0	0	16,596	23,572
Finished Avation Gospins	ָם מו	- 6	> •	ې د	0	0	0	0	0	•	0
Nanhtha-Two let Evol	g c	55 S	9	φ	ο,	0	-288	0	0	77	716
Korocoo Timo lot Cirol	> 0	120,7	٠ د	488	0	0	89 89	0	0	2,141	2,546
Konsona	> (0000	0 (459	ο.	0	-12,778	0	245	995	11,182
Distilate End Off	۷ ۳	3,038	9	χη (Υ	0	0	-1,369	0	0	1,637	2,629
Besidual Fuel Or	- c	40,781	330	160 673	0	v- 4	-26,692	0	8	14,286	36,858
Naphtha and Other Oils for Petro. Feed	c	101 a	000,	500°	> c	-	-2,851	0 (2,127	9,614	16,141
Special Naphthas	8	935	433	80	o C	,	8 6	o c	800	0,735 4,450	3,037
Lubncants	0	2,408	28	7	0	0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$, c	3.5	1 200	40.7-1 07.7-1
Waxes minimum distribution and a second distribution of the second distribu	o	238	\$	-12	C	0	1 E	· c	j G	2000	94.0
Petroleum Coke	0	4,771	0	0	٥	0	, c	· c	3.486	1 204	4 0 0 0
Asphalt	۵	2,610	57	80	0	0	-497	· c	(F)	178	2 077
Road Oil	0	0	0	-	0	0	0	0	6	; -	5,0
Still Gas	ø	7,326	0	0	0	0	0	0	0	7.326	- c
Miscellaneous Products	83	1,723	0	173	0	0	-887	0	\$	1,083	1,852
Total	162,467	192,557	65,882	-2,292	-23,881	-13	-99.140	185.277	8.154	102 149	734 695
						:				2	201101

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation

Table 9. PAD District IV Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barrels)

				Supply					Disposition		
Commodity	Field Produc- tron	Refinery Produc- tron	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Crude Used Directly and Losses2	Net Receipts	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 17,087	0	1,738	-1,092	-4,888	87	0	12,837	•	0	12,885
Natural Gas Plant Liquids and LRGs	2,278	113	622	87	Q	O	-399	578	0	1,948	1,351
Liquefied Petroleum Gases	868 868	13	570 0	چ چ	00	0 0	ဇ္ဇ င	435	o c	1,075	1,019
Other Products ³	1,377	0	52	-55	0	0	-366	143	0	865	332
Other Liquids	39	0	0	-123	0	0	0	-319	0	235	4.619
Other Hydrocarbons and Alcohol	39	ο.	0	0	0	0	0	38	0	0	0
Motor Conduct Plading Consession	0 0	0	0 0	115	0 0	0	0 (-244	0 (359	2,733
Aviation Gasoline Blending Components	00	0	0	000	0	0	> C	L 4 c	> C	124 C	1,886
		•	•	•	•	•	•	•	•	•	>
Finished Petroleum Products	£	13,280	-	-674	0	60 >	180	0	74	12,836	12,302
Finished Motor Gasoline	88	7,034	0	482	0	0	205	0	0	6,784	5,276
Finished Leaded Motor Gasoline	22	4,539	0	402	0	O	-161	۵	٥	4,000	3,276
Finished Unleaded Motor Gasoline	m (2,492	0 (æ°	0 (0	366	0	0	2,781	1,999
Enchod Arieton Copolino	9 6	n 6	o c	o (0	0	0 0	۰ ،	0 (m i	-
Naphta-Type let Fuel	9 0	446	- C	¥ 4	o c	-	100	0 0	00	331	
Kerosene-Type Jet Fuel	0	531	•	4-	0	00	578	00	0	1.095	623
Kerosene	0	79		ιΩ	0	0	0	0	0	8	8
Distillate Fuel Oil	0	3,409	(s)	40	٥	Q	420	0	0	3,029	3,509
Nachtta and Other Oils for Boths Food	00	888 888	0 0	32	00	00 0	0 0	0 (393	513
Special Nanhthas	0	o ev	-	n	o c	-	> c	> c	<u>(</u>	س <u>ه</u>	> 0
Lubricants	0	ı	0	1 4	• •	0	0) C) (S)	7 %	o g
Waxes	0	21	0	9	0	0	0	0	0	र भू	3 2
Petroleum Coke	0	299	0	-52	0	0	0	0	(8)	247	713
Asphalt	0	222	0	-171	0	0	0	0	-	405	1,144
Road Oil	0	0	0	က	0	0	0	0	0	က	0
Still Gas	0	473	Φ	0	0	0	0	0	0	473	0
Miscellaneous Products	5	27	0	(s)	0	0	0	0	(S)	43	2
Total	19,447	13,393	2,361	-1,977	4,888	0	-219	13,096	2	15,020	31,157

1 Unaccounted for crude oil is a balancing item.
2 Total equals refinery fuel use and loss.
3 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barnels.
E Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanation Notes on Data Collection and Estimation.

Table 10. PAD District V Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barrels)

				Supply							
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Unac- counted For Crude	Crude Used Directly and	Net Receipts	Refinery Inputs	Exports	Products Supplied	Ending Stocks
				tion (-)		Losses2					
Crude Uli (including lease condensate)	E 83,421	0	5,781	5,807	8C9-9-	1 500					
Natural Gas Plant Liquids and LRGs	913	000				676'1-	-19,902	59,998	6,652	0	82,475
Ethana	573	556 6	627	ខ្លួ	0	0	0	1.329	77	į	
Other Products	0	10	0	g C	00	00	0	1,102	<u> </u>	1,0/1 944	2,061
	340	0	0	4	0	0	00	0 0	0 (10	0
Oner Liquids	493	c	000	i		1	>	177	0	117	99
United hydrocarbons and Alcohol	493	0	230	515	0	0	٥	2.668	ć	, ,	
Motor Gasoline Blooded Comments	0	0	0	35.0	0 0	0	٥	498	Ċ	474.	33,472
Aviation Gasoline Pleading Companies	0	0	236	15.4	5 0	0	0	1,882	0	-1 52B	0 40 0 44
· ··· Sublichino Granica Company	0	0	0	3	> c	0 (0	286	0	106	112,02
Finished Petroleum Products	•			•	5	o	0	N	0	2 4	0,223 98
Finished Motor Gasoline	-	66,407	1,763	410	o	* 504	0				}
Finished Leaded Motor Gasoline	۰,	28,753	1,215	209	· c	100	2,707	0	6,566	66,399	52.247
Finished Unleaded Motor Gasoline	0	12,963	953	-129	· c	> C	1,834	0	12	31,999	18 990
Gasohol	0 (15,726	262	340	• =	0	1,240	0	12	15,016	980
Finished Aviation Gasotine	0	2	٥	?) C	> c	594	0	0	16,922	0 0 0
Naphtha-Type Jet Fuel	0 (203	0	7	o c	0 6	၁	0	0	62	9
Kerosene-Type Jet Fuel	5 (1,652	0	-210	· c	0 0	0 8	0	0	168	999
	0 (6,367	0	-109	0	0 0	2000	0 (0	1,770	1,445
	ه د	109	(s)	76	0	o c	240	5 (53	6,463	5.554
Residual Fuel Oil	> c	10,698	169	-1,641	0	233	D 23	0 0	(s)	185	123
Feed	> c	890'8	337	1,186	0	1.271	475	> (410	9,722	11,277
Special Naphthas	0 0	300	52	-17	0	0	7	o c	3,346	9,010	8,412
Lubricants) C	5 5	٠ <u>.</u>	88	Q	0	0	o c	- •	984	869
:	· c	÷ 5	- ι	283	0	0	182	o c	- (145	196
	o c	7 7	ın «	5	0	0		0 0	p ı	1,056	1,191
Asphalt	0 0	2	0	-306	0	٥	o c	o c	ני ני	တိုင်	45
	.	400	0	සි	0	· C	• •	> 0	2,705	432	1,971
Still Gas	> 0	2	0	ዋ	0	o c	o ¢	5 (0	1,032	1,331
	> c	3,275	0	0	0	0	> <	5 6	Q	τ.	33
Terest to troum the appropriate test appropriately and the state of th	5	109	0	-12	0	o c	> ¢	0 0	0	3,275	0
Total	700 V					•	2	5	ო	2	315
	44,06.1	01,340	8,407	5,975	-6,928	-25	-16,201	63.995	13 260	0,000	į
Unaccounted for crude oil is a balancing item									2001	00,046	170,255

Unaccounted for crude oil is a balancing item
 Total equals retinery fuel use and loss.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate
 Less than 500 barrels
 E Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Current Month, 'September 1982 (Thousands of Barrels)

	Prod	Production		Pro	Production
PAD District and State		Caily	PAD District and Chate	1	
	Total	Average	י אם שוויים מיום אמונים להיי	Total	Cally
PAD District I			PAD District (V		OKC10AC
Plorida	2,008	. 67	Colorado	2.426	ä
New York	69 W	67	Montana	2541	i de
Pennsylvania	€ 306	10		E 1 949	3 12
Virginia	0	0		0000	3 8
West Virginia	E 285	9	TACL	2,000	8 K K
	E 2.668	68	(VG)	8//01 3	ACC C
	•				
PAD District II			PAD District V		
Hindie	2 445	Sa	Alaska		
MINIMAN SUPERSUMMENTAL PROPERTY AND	£ 6	7 5	South Alaska	9 9 7 3	92
Indiana	E 388	£	North Close	0,0,0	0 00
Kansas	5,985	200	Total Alacka	0,0	620,1
Kentucky tentucky	E 538	18	Local Maska	51,149	1,705
Michigan	2.663	68	ATZORE	83	-
	i iii	•	California		
Notes cha	2 2 2	- ç	Central Coastal	6,366	212
NEUGONA	occ .	2 6	East Central	20,437	681
NOTIN DAKOLA www.mininininininininininininininininininin	4,069	136	Noth drow	16	•
Ohjo	E 1,114	37	South .	6.652	222
Oklahoma	13,692	456		33.471	1 116
South Dakota	89	ന	Nevada	45	
Tennessee	110	4		84.693	2,823
	E 31.674	1.056			ì
			United States Total	E 261 184	8 708
PAD Dietrict III					
	0 F S F	c i	1 Includes offshore production		
APARTIES	ת ליל ע על היי ע	3 8	Sources: See Explanatory Notes on Data Collection and Estim	ation	
I oruginas	5 to 1	76	E Estmated.		
C. J. Donat	1				
GOIL ON STATE THE PROPERTY OF STATE OF	247.45	3,70			
Hest of State where the state of the s	2,951	86			
lotal Louisiana	37,700	1,257			
Mississippi	2,675	68			
New Mexico					
Northwestern	482	16			
Southeastern	5,334	178			
Total New Mexico	5,816	194			
Texas					
TRAC District 01	2,119	7			
TRRC District 02	3,167	106			
	10.586	353			
	2280	76			
在在文学中的专作的文学的主题的表示的主题的表示的文学和文学、 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0020	? ?			
1000 COSTO CO	3	7 ;			
TRRC District 06, excluding East Texas	3,445	כנו			
TRRC District 07B	2,716	56			
TRRC District 07C	2,753	95			
TRRC District 08	19,856	995			
TRRC District 08A	19,360	645			
	3 126	401			
	1 707	12			
1770 USUIV 10 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	1,101	5 5			
CAST CARS AND	1000	4646			
OED EXAS	100'07	2,530			
Total	E 125,370	¥,1,4			

Table 12. Offshore Production of Crude Oil (including Lease Condensate) By State, for the Most Current Month,¹ September 1982 (Thousands of Barrels)

	Offshore	Offshore Production
State	Total	Daily Average
Alaska²	2,023	29
Federal	2,423	50
State	3,281	109
California, Total	5,704	190
Federal	22,437	748
State	1,977	99
Louisiana, TotalTexas	24,414	814
Federal	1,457	49
State	139	ß
Texas, Total	1,596	53
United States Total	33,737	1,125

Table 13. Production of Lease Condensate by State, for the Most Current Month, ¹ September 1982 (Thousands of Barrels)

Charge	Lease Co Produ	Lease Condensate Production
Olate	Total	Daily Average
Alabama	903	8
California	0	(s)
Louisiana	5,300	177
Mississippi idississippi	154	S
New Mexico	294	5
Oklahoma	961	32
Texas	3,407	114
Total	11,029	368

1 These production data are included in Table 11. Small amounts of lease condensate are known to be produced in states other than those listed, however, statistics on this production are not available (s) Less than 500 barrels.

Note Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

¹ These production data are included in Table 11.
2 All offshore production within State boundaries
Note: Total may not equal sum of components due to independent rounding.
Sources: See Explanatory Notes on Data Collection and Estimation.

Table 14. Natural Gas Processing Plant Production of Petroleum Products by PAD District, 1 November 1982 (Thousands of Barrels)

	PA	PAD Destrict	-		PAG	PAD District					PAD District III	150 E			I	DAD	
Commodity	Coast	Appala- chian #1	Total	Appala- chian #2	Ind., III., Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	Gulf Coast	1	New Mexico	Total	Dist. IV Rocky Mt.	Dest. V West Coast	United
	6	190		5	00		020.2	0 404	40 599	9.759	0 050	808		25 101		013	AR 710
Natural Gas Plant Lyduos	200	900	350	2	100		200	1	3,000	3		9				;	2
sopentare	0	٥	0	0	0		371	37	22	8	4 20	0		200		0	53
Natural Gasoline	88	32	121	0	49		166	1,133	1,748	224	1,255	135		3,607		328	5,600
Unfractionated Stream	প্ত	32	8	(8)	925		-3,783	-2,769	9,704	-10,495	929	183		2,732		-19	936
Plant Condensate	0	0	0	0	41		56	67	236	613	83	8		808		0	940
Lignefied Petroleum Gases and Ethane	443	300	743	0	867		9,465	10,599	7,414	12,328	660'9	577		27,488		573	40,305
Fthane	14	155	299	0	382		2,214	2,596	918	2,675	2,072	20		5,800		0	8,703
Propare	176	86	274	0	351		3,168	3,684	2,695	3,343	2,020	174		8,761		336	13,616
Butane	66	31	130	0	54		1,288	1,430	1,170	1,875	773	199		4,229		184	6,298
Butane-Propane Mixtures	0	0	0	0	0		0	0	æ	ผ	(s)	1		86		8	132
Ethane-Propane Mixtures	0	0	0	0	45		2,251	2,296	1,956	3,351	299	0		6,078		0	8,373
Sobrtane	R	16	33	0	36		\$	593	609	1,062	635	4		2,523		19	3,183
Finished Motor Gasoline	4	0	4	0	0		0	0	0	0	0	0		0		0	F
Finished Leaded Motor Gasoline	4	0	4	0	0		0	0	0	0	0	0		0		0	88
Finished Unleaded Motor Gasoline	0	0	0	0	0		0	0	0	0	0	0		0		0	ო
Gasohol	0	0	٥	0	0		0	0	0	0	0	0		0		0	0
Finished Aviation Gasoline	0	0	0	0	0		0	0	83	0	0	0		£S		0	22
Naohtha-Tvoe Jet Fuel	0	0	0	0	0		٥	0	0	0	0	0		0		0	0
Kerosene-Type Jet Fuel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kerosene	0	0	0	0	0		٥	0	<u>(s)</u>	0	0	0		~		0	8
Distrilate Fuel Oil	0	0	0	0	0	0	-	-	-	0	0	0		**		0	N
Soecial Nachthas	0	0	0	0	0	0	0	0	8	0	0	0		8		0	8
Miscellaneous Products	0	0	0	0	g.	٥	5	12	71	က	N	F		8		Q	116
Total Broduction	504	367	474	(8)	1 883	449	7.082	9414	19.711	2.761	8.052	833	4.035	35,398	2.321	913	49,017
	3	3	5		2	?			1	•							

¹ Production represents quantity of natural gas processing plant output less input to fractionating facilities.

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding.

Source: See Explanatory Notes on Data Collection and Estimation.

lable 15. Refinery input of Crude Oil and Petroleum Products by PAD District, November 1982 (Thousands of Barrels, Except Where Noted)

		PAU Distri	Ę			PAD District	= 5		L		200						
Commodity	Coast	chian	Total	Appala- chian	- - - 		Okla, Kans,	Total	Texas	Texas	4	Suff No. La,	New	1	PAD Dist. №	PAD Dist. V	United
Crude Oil (including lease condensate) 33,606	33,606	1,829	35,435	1 -	٦ '	7 930	Mo 21 276	200.05	Dunging S	Coast	Coast	¥	Межсо	5	Mt	Coast	States
Natural Gas Plant Liquids						-	0/6,12	19,320	13,173	84.136 36.136	60,161	4,808	2,304	164,642 12,837	12,837	59,998	352,232
Natural Gasoline and Isopentane	15	0	5	c	27.5	950	,	,									
Plant Condenses	0	0	0	0	0	, ,	3 -	1,249	808	2,150	393	109	2 5	3,544	76	227	5 111
LPG and Ethane	0	0	0	٥	107	0	` -	1 0	οŘ	0 9	ې ۵	0	0	0	0	0	. 0
Ethane	682	<u>⊕</u>	205	145	2,431	487	1.15	4.217	? <u>}</u>	1 070	2 5	221	-	833	67	0	1,008
Propane	> C	0 0	0 0	0 0	0 ;	0	0	0	0	() ()	7. 2. %	5 5 0	ღ ი	5,134	435	1,102	11,093
Nomal Butane	8	0	85) b	100	3 13	0 !	8	0	0	4.55	0	0	4 4 4	- 6	0	¥ 5
Cyrner Butanes	0	0	0	20	373) SS (2	2,177	287	1,636	1,112	42	' -	3.088	119	349	n - 04
Ethana-Propage Mixtures	0	0	0	0	196	3 0	, 0	96	94.	1 22	117	0	0	355	252	490	1.574
Sobutane	0 ;	Φ :	0	0	0	0	0	9 0	o c	÷ •	4 0	0 (4	166	ဖ	0	368
##045	2	9	8	99	755	42	385	1.248	339	2 5) ÷	0 8	0 (0	0	0	0
Other Lequids									}	2	- -	8	31	1,479	22	263	3,165
Other Hydrocarbons	102	0	102	c	1	•	•	1									
	0	0	0	0	0	o c	> c	2	<u>გ</u> (587	83	0	0	826	38	497	1574
Motor Gasoline Blending	3,113	180	3,293	25	245	38.	321	989	787	2 507	0 0	0 8	0 ;	0	0	-	-
	100	,	1							201	6,513	8	145	6,423	-244	1,882	12,040
	780'I-	\$	-1,136	٣	1,802	ო	213	2,010	327	1,626	2,137	99	4	3,981	-114	286	5.007
Components (net)	4	0	4	٥	£	0	ç	38	-75	7	7	(,			}	100
Total Input to Refinenes 35,937	35,937	1,981	37,918	1,862	53,354	8,710	23,822	87.748	15.855	02 527	2002 23	2 6	o ;			N	ដុ
Crude Oil Distillation								2		20,00	066,10	6/2'0	2,566	185,277 1	13,096	63,995	388,034
Gross Input (daily average)	24. 24. 44. 44.	88	1,208	62	1,650	285	719	2,717	485	2,937	2,059	169	98	5.735	433	790 0	19,61
Operating Ratio (percent) [†]	9.69	640	69.3	94.4	69.9	96.6	8 2 8 8	3,608 75.3	85 87 87 87 87 87 87 87 87 87 87 87 87 87	4,301 68.3	2,756	267 63.4	107	8,052	286	3,100	17,092
Crude Oil Qualities Sulfur Content, Weighted Average												3		4	0.57	99.0	1.5
	30.91	.19	.99 31.51	.75 36.90	.91 35 10	1.65 30 86	37 23	88. 66.	56.	76-	.80	1.36	96			1.04	ë
					3		27.75	RN CS	38 36	34.38			39.08	34 41	35.86	25.79	32 80
1 Represents gross input divided by operable capacity	ole canar	į														2	26.00

1 Represents gross input divided by operable capacity
Note: Total may not equal sum of components due to independent rounding.
Source: See Explanatory Notes on Data Collection and Estimation

Table 16. Refinery Production of Petroleum Products by PAD District, November 1982 (Thousands of Barrels)

	PAD De	Detroot	-		240	DAD Clean					DAD DAD	III section			0	0.00	
	١ ٠	-elecc	. *	-stead		Minor	- G			Toyac	֓֞֟֟֓֟֟֟֟֓֟֟֟֓֟֟֓֟֟֓֟֟֟֓֓֟֟֓֓֟֟֓֓֟֟֓֓֟֟	- -		Ī	2 2		Lotte
Commodity	Coast	chian #1	Total	chian #2	Ind. II., Ky.		Kans., Mo	Total	Texas	Gulf	Guif	No La, Ark, h	New	Total	Rocky Mt.	to	States
Figurefied Petroleum Gasses and Ethane	1.165	c	1 165	33	1312	38	437	200	25.	1 866	1 255	ç	64	3 535	113	95	7 774
For Detrochemical Feedstrock 11se	261	· c	3	-	141	-	46	187		796	288	} a	e e	1078	9	100	1 874
For Other Uses	904	0	904	35	1,171	238	391	1,835	251	1.070	1.019	23 0	8 5	2,459	122	280	6.100
Ethane	0	0	0	0	17	0	0	17	0	10	10	0	0	8	0	5	47
For Petrochemical Feedstock Use	0	0	0	0	0 !	0	0	0	0	10	1	0	0	8	0	0	8
For Other Uses	0 6	0 0	0 0	0 5	17	0 8	0 [17	0 8	0 (0 ;	0 6	o í	0 0	0 9	9	27
Fropane	960,	> c	000	g c	705,1	9	170	2,152	§ 6	7.87	1,438	3 9	, ,	3,583	20.0	2 .	78,
For Perochemical Feedslock Use	8 6	> c	0 0	o k	4 6	2 0	4 <u>4</u>	100	, ,	5/6	501	⊃ 6	o ţ	741	<u>د</u> د	4 5	318,1
******	8 5	> c	8 5	, c	17,	8 0	ģ g		3 6	77	2,4	2 5	4 ¢	4,044 4,044	2 6	\$ 4	0,00
Ex Detrochemical Ecodetock Hos	3 4	> 0	3 4	> 0	ñ	> 0	9 0	} -	3 0	4 6	130	<u>+</u> a	ე ი	797	ņ c	₹ 1	271-
For Other Tees	3 2	> 0	3 2	> C	ין כ	o c	9	137.0	o ç	2 5	3 8	0 4	9 6	250	<u>ي</u> د	n {	200
Ritana Processo Michinas	ζ =	0	5 <	o c	} =	o c	g =	ì	3 6	7.3	3 %	0	. ^	Ì	7 5	7	27 2
For Petrochemical Feedstock Use	0	0	0	0	0	0	0	0	0	20	, fü	4 C	· C	. t.	<u> </u>	, c	2 45
For Other Uses	0	0	0	0	0	0	0	0	0	73.	2 22	· «	۸ د	3 2	5	, \$	5 2
Isobutane for Petro. Feed. Use	0	0	0	0	0	0	0	0	0	2	0	0	0	-20	i on	0	55
Finished Motor Gasoline	16.031	260	16.591	1.034	30,154	4.582	13.113	48.883	8.694	42.439	32,902	1.795	1.037	86.867	7.034	28.753	188.128
Finished Leaded Motor Gasoline	6,830	88	7,120	490	13,782	2,684	8,502	25,458	4,929	17,593	16,465	1,193	595	40,775	4,539	12,963	90,855
Finished Unleaded Motor Gasoline	9,201	270	9,471	25	16,357	1,898	4,606	23,405	3,764	24,846	16,437	602	422	46,091	2,492	15,726	97,185
Gasohol	0	0	0	0	7	0	цэ	8	-	0	0	0	0	-	က	2	88
Finished Awation Gasoline	22	0	5	0	8	0	유	5	7	183	139	0	0	329	ର	503	670
Naphtha-Type Jet Fuel	402	20	452	62	403	103	354	922	766	905	339	190	321	2,521	446	1,652	5,993
Kerosene-Type Jet Fuel	579	0	579	83	2,979	134	452	3,654	682	5,629	7,016	₽ P	22	13,365	531	6,367	24,496
Кетоѕеле	305	ဓ	335	0	623	28	49	82	20	1,576	1,384	~	9	3,058	73	109	4,308
Distillate Fuel Oil	9,662	586	10,248	383	11,081	2,415	6,878	20,757	3,518	22,830	12,075	1,496	872	40,791	3,409	10,698	85,903
Distillate ruel Oil Less No 4	9,662	284	10,246		11,048	2,415	6,878	20,724	3,493	22,815	11,747	1,429	632	40,116	3,386	10,617	85,089
Desided Fuel Oil	0 10	N I	2 2	0 ;	3 83	0 9	0 6	8 8	8 8	15	328	67	8 1 1	675	ខ្ល	9 9	814
Nantha / 400 Dea Ex Data Each 100	3,530	2	050,4	9		, ,	3 8	2,093	25	9,00	20/6	3	: °	484	200	990,5	23,558
Other Oils / 400 Day For Bath, Feed Use	2 0	0	g a	o c	1 24 1	o c	3 -	3 5	7 2 5	202'C	200	2	0 0	2,070	> C	7 25	700,4
Consist Northbor	1,00	7	1.0	> 0	012,	> C	- 46	טוע, מסני	1 20	00°,	20°,2	5 5	> 0	, 0 0 10 10 10 10 10 10 10 10 10 10 10 10	> c	8 6	1.268
Jubricants	25.0	370	209	o c	200	• =	2 5	764	2 5	1577	o o	5 %	o c	2.45.8	4 0	? ;	24.4
Bacht Stock	3 60	138	ž 2	c	7) C	5 6	4	9 0	157	3	10	0	20.5	0	22	458
Neutral	<u>~</u>	217	768	0	364	0	208	572	0	811	455	3	0	1,350	, L	390	2,591
Other Grades	173	17	190	0	86	0	92	151	8	609	5	128	0	857	٩	202	1.401
Wax	<u>0</u>	11	96	0	~	0	35	42	ம	12	88	34	0	88	23	49	446
Microcrystalline	0	4	‡ !	0	01	0	52	52	φ.	£ 5	0 9	₩,	0	<u>ج</u> کی	0 ;	0 (8 8
Crystaline-Fully Refined	- '	4 (1 13	0 0	٠ ،	0 0	4 (Ξ'	0 0	3, 4	30 0	0 0	5 0	5.	2 c	3 ;	3 ;
Cystaline-Orber	2 C	7	2 0	; ⊂	9 0	22.0	200	2 2	250	2 40	0 40	2 5) ‡		900	2 77 0	12.77
Madathia Coxe	27.	= <	, 10,	3 0	45.0	308	486	100	3 4	1.241	10, 1	<u> </u>		0 100	5 1 7 7 7	2633	7,620
Catchert	502	7	7.7	2 6	744	118	280	1,60	5 2	1286	730	3 %	;	2 248	145	350	7 085
Acobalt	2 320	. •-	2321	118	1.911	585	629	3.243	493	4	926	715	2	2,610	577	95	9.705
Road Oil	0	0	0	0	n	0	0	8	0	0	0	0	0	0	0	2	55
Still Gas	1,578	82	1,663	99	1,904	256	889	3,115	426	4,291	2,393	169	47	7,326	473	3,275	15,852
For Petrochemical Feedstock Use	10	0	9	0		0	0	-	ហ	569	8	0	0	35	14	5	489
For Other Uses	1,568	88	1,653	88	1,903	526	883	3,114	421	4,022	2,313	169	47	6,972	459	3,165	15,363
Miscellaneous Products	418	30	448	7	ŗ,	24	8	137	90	800	301	4	0	1,723	27	60	2, 44 4
Total Output	38,077	1,936	40,013	1,932	56,203	9,062	24,650	91,847	16,265	97,598	70,768	5,324	2,602	192,557	13,393	67,346	405,156
Processing Gain(-) or Loss(+)1	-2,140	45	-2,095	-70	-2,849	-352	828	4,099	410	4,011	-2,778	4	98	-7,280	-297	-3,351	-17.122
																- 1	
1 Represents the arithmetic difference between input and out	input and	output															

¹ Represents the arithmetic difference between input and output.
Notes: Total may not equal sum of components due to independent rounding.
See Explanatory Notes on negative product yield.
Source: See Explanatory Notes on Data Collection and Estimation

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Table 17. Percent Refinery Yield of Petroleum Products by PAD District, 1 November 1982

	PA	D Distric	1		A	PAD District	=				PAD District	inct III			PAN	DAG	
Commodity	East Coast	Appala- st chian	Cotal	Appala- chian #2	Ind. II. Ky	Minn., Wisc., Daks	Okta, Kans,	Total	Texas	Gulf Gulf	4 <u>j</u>	No La, Ark	New	Total	Dist IV Rocky	West V	United
Finished Motor Gasoline2	45 B	202	1	53.0	50.5	007	5	i i			100		;	1	101	TSPACE I	
Finished Aviation Gasoline3	3	3	}	3	3	4 0	,,	c,lc	5 7	0.14	<u>ئ</u> ئ	58.6	37.6	424	51.9	43.1	45.1
Linetied Bothoon Goods & Ethons	D 6	⇒ 6	26	2 6	~ ;	٠ ;	٦;	-	ωį	cί	ભુ	Q	0	Ŋ	κį	ლ	οi
Mozetto Ten let Giel	7	.	9.0	20	27	30	20	2.5	œ —	2.5	20	4:	4.0	2.7	o	ī.	2.1
Korocono Timo lot Euch	- ;	72	2.	9	κġ.	 	9.	ci Ci	5.5	1.0	ιij	39	13.1	rD.	3.5	2.7	9:
Karasana	9	> (٠ <u>.</u>	2.2	61	1.7	21	4.6	4.9	6.5	1.1	ωį	0.1	78	4.2	10.3	67
Disklote Engl On	ó	<u> </u>	ָ יַרָּכ	>	e .	۲.	κi	σį	4	18	22	(s)	9.	6	9	cų	27
	20.3	27 1	26.5	22.5	228	30.3	31.7	25.9	25.2	26.3	19.1	30.7	35 6	238	27 1	17.3	23.6
Nacktky / 400 Dea E Date East 11-1) OL	5.7	10.5	67	37	4,3	20	3,4	5.2	11	9.5	5.2	1.	6.7	28	14.7	81
Other Oile 1 400 Day in reine fine in the	O: {	5 (Dj	0 '	٠. ,	0	4.	ci	2.5	9	4	0	0	2.2	0	4	<u>.</u>
Special Naphthas	e `	•	@ [°]	0	52	φ.	<u>ક</u>	L. rč	Ţ	22	4.7	10	0	2.8	0	5	6
Unbrocato	† 1	- ç	7	9	ų.	0	.7	ιú	æ	.7	۳.	37	0	ιί	(s)	-	en en
Was	,	184	9.	0	oį į	0	4.4	-	۲.	89	οί	43	0	4.	-	0.1	1.2
Dathologyan Colon	- 0	30 I	. i.	0 ((s)	0	κį	۳.	(2)	۳,	٠.	۲.	0	۳.	Ŋ	Τ.	ļ -
Acabalt	N C	ر ت		9.	0.0	₩.	35	3.8	43	5.9	2.9	27	4,	2.8	2.4	5.6	3.5
Dood Oil	9 0	<u>ن</u>	0.0	8,6	6.6	7.3	20	4.	3.5	κċ	ار ئ	147	3.1	r.	4.6	1.5	27
CALL CAR SAN DAMA TALL TALL	> ;	.)	0	ହ	0	0	<u>(8</u>	0	0	0	o:	0	ó	0	(2)	(S)
Still On for Delay Pero. Use	(s)	0	(g)	0	<u>©</u>	٥	o	(S)	છ	ιć	-	0	0	2	-	.0	
Misself and Total United Uses	4	4.	4.	3.8	ල ල	32	4.1	3.9	3.0	4.6	37	3.5	6	4	3.6	i to	. 4
Miscellaneous Products	:		.	-	-	ო	ო	Ŋ	αį	o;	13	ωį	0	10	Ŋ	ú	7
Processing Gan(-) or Loss(+)4	-5.8	22	-5.4	7	-59	4	-38	-5.1	-29	4	4	on I	u:	e 4	20	r,	7
									1	!		}	į	,	t j	†	ì

1 Based on crude oil input and net reruns of unfinished oils.
2 Based on total finished motor gasoline output plus net output of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and alcohol.
3 Based on finished aviation gasoline output plus net output of aviation gasoline blending components
4 Represents the arithmetic difference between input and Production.
(s) Less than 0.05 percent.
Note: Total may not equal sum of components due to independent rounding.
See Explanatory Notes on negative product yields.
Source: See Explanatory Notes on Data Collection and Estimation.

Table 18. Refinery Receipts of Crude Oil by PAD District, November 1982 (Thousands of Barrels)

	PA	PAD District 1	_		PA	PAD District II	=				PAD District III	ithet III			PAD	PAD	
Method	East Coast	Appala- chian #1	Total	Appala- chian #2	ind. Ky.	Minn., Wisc., Daks.	Okla. Kans., Mo.	Total	Texas	Texas Gulf Coast	Coast	No. La Ark	New	Total	Dist. IV Rocky Mt.	Dist, V West Coast	United
Pipeline Domestic Foreign	00	1,234	1,234	1,583 181	32,244 13,638	4,172 3,675	19,561 1,428	57,560 18,922	11,499	49,513 7,517	30,321 4,299	3,276 175	2,020	96,629 12,728	10,198	28,883 773	194,504 34,224
Tanker Domestic Foreign	3,042 26,541	00	3,042 26,541	00	742	00	00	0 742	00	5,551 16,907	4,832 17,335	00	00	10,383 34,242	00	23,013 8,292	36,438 69,817
Barge Domestic	4,281	37 0	37 4,281	00	969 886	00	00	969 886	00	5,285 0	4,059 55	32 786	00	9,376 841	00	268 0	10,650 6,008
Tank Cars Domestic Foreign	88 O	349	417	00	00	00	00	00	00	00	00	<u>6</u> 0	00	<u>6</u> 0	00	00	436
Trucks Domestic Foreign	00	361	361	00	269	စ္က ၀	858 0	1,165	661 171	189	144	968 O	305	2,564	847	1,378	6,315
Total Domestic Foreign	3,110	1,981	1,981 5,091 0 30,822	1,583 181	33,482 15,266	4,210 3,675	20,419	59,694 20,550	12,160 908	60,538 24,424	39,653 21,689	4,295 961	2,325	118,971 47,982	11,045	53,542 9,065	248,343 110,220

Note: Total may not equal sum of components due to independent rounding Source. See Explanatory Notes on Data Collection and Estmation.

Table 19. Fuels Consumed at Refineries by PAD District, November 1982 (Thousands of Barrels, Except Where Noted)

	PAI	PAD District	_		PAI	D District	11				PAD Dis	ECt III		_	PAD	PAD	
- Appendix	-Set Appala-	Appala-	~	ppala-	70	Minn.	Okla.		1	-		,	A.C		Dist IV	Dist V	United
	Coast	chian #1	Total	chian #2	III, Ky.	Wisc., Daks.	Kans. Mo	Total	Inland	Gulf	Gulf	Ark.	Mexico	Total	Rocky	West	States
		4	(•	•	•	•		,	•		,	Í	•	'	;	1
Cade Oil (incideing lease condensate)	>	>	2	>	0	>	>	>	>	>	٥	0	>	Ю	0	(S)	ω
Liquefied Petroleum Gases ¹	4	N	14	(s)	4	15	₩	104	-	4	317	0	ιΩ	326	~	173	624
Unfinished Oils	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Distillate Fuel Oil	99	55	9/9	0	ო	0	(S)	ო	7	0	8	0	(s)	o,	0	ଯ	708
Residual Fuel Oil	629	25	089 9	ଯ	319	\$	ო	426	ß	174	98	9	0	282	274	315	1,980
Marketable Petroleum Coke	0	0	0	0	0	0	0	0	0	(s)	0	0	0	(s)	t,	45	8
Catalyst Petroleum Coke	702	Ξ	713	27	707	88	23	1,024	186	1,33	740	ស	Ŧ	2,192	145	808	4,883
Still Gas	1,378	8	1.463	99	1,821	526	814	2,958	377	3,740	2,069	161	48	6,395	432	3,056	14,303
Other Fuels 2	φ	0	9	0	29	0	0	79	0	F	0	0	0	F	2	\$	162
Natural Gas (million cubic feet)	1,761	201	1,962	SS.	4,340	124	3,318	7,835	2,478	21,475	8,778	862	146	33,739	1,111	7,117	51,764
Coal (thousand short tons)	0	ដ	13	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Purchased Electricity (million kWh)	234	83	5 62	<u>0</u>	367	46	571	997	12	372	386	22	7	878	133	850	3,080
Purchased Steam (million pounds)	611	ထ	617	0	98 	0	0	98	0	0	297	0	0	597	0	817	2,127

Includes inquefied refinery gases.
 Includes small quantities of other petroleum products (e.g., unfinished oils, kerosene, etc.) consumed at refinenes.
 Less than 500 barrels except where noted.
 Note: Total may not equal sum of components due to independent rounding.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 20. Imports of Crude Oil and Petroleum Products by PAD District, November 1982 (Thousands of Barrels)

Commodity		Petroleum	Petroleum Administration for Defense Districts	n for Defen	se Districts	
,	-	=	=	2	>	Total
Crude Oil (including lease condensate) 1 2	32,039	18,872	57,447	1,738	5,781	115,876
Natural Gas Liquids	728	5.056	2145	5		. :
Plant Conditional	0	0	879	200	921	9,180
I iduation Defections Constitutions	149	0	0	¥ 6	o c	9/8
Ethane	280	5,056	1,167	570	627	2 5
Probane	(s)	1,256	0	0	}	1.956
Butane	367	2,259	0	328	120	3.074
Butane-Propane Mixtures	214	933	9	242	202	1.902
Ethane-Propane Mixtures	6 6	0 609	1,161	00	00	1,161
Other Liquids 1				•	>	506
Unfinished Oils 1	1763	28	3,407	0	236	6,730
Motor Gasoline Blending Components	741	3 6	2,693	0 6	0	4,907
	•	3	410	5	38	1,823
Finished Petroleum Products	34,629	724	2882	•	4	
rinished Motor Gasoline	4,976	•	(8)	- 0	2,63	39,999
Finished Leaded Motor Gasoline	2,740	10	ূ জ	9 0	C12,1	6,194
Eisebod Attach Conference	2,236	7		> C	3 6	400,0
Name Andrea Late Late Later and Late	(s)	0	·c	o c	202	2,500
Kerosana Tana lat Eust	0	0	0	0	•	<u>a</u>
Bonded Arcraft Engl	861	0	0	0	c	861
Other	٥	٥	0	0	٥	30
Kerosene	- Se	0	0	0	0	861
Ojen	1,0	0	0	٥	(S)	1,011
Bonded ships bunkers	, c.	<u>(8)</u>	99 99	(S)	169	4,229
For military offshore use	• 0	-	-	0 (0	0
No. 2 fuel oil	3,731	(S)	330) (o 9	0
No. 4 Tuel Oil	0	0	}	2	200	4,229
Booled Alice Landers	22,780	514	1,666	, c	337	05 207
For mittee offshare use	0	0	0	0	}	, c.,
Other	0	o	0	٥	0	o c
Nanhtha / Ann Don for Date Total 1	22,780	514	1,666	0	337	25 207
Other Oils / 400 Deg. 10f Perio Feed, Use	87	66	350	0	8	45.5 8.5.5
Special Markthan	0	0	0	0	0	3
Librasote	286	35	433	-	15	828
Way	717	ဖ	28	0		751
Ashal	52	ო	18	0	r)	78
Missellandore Products	23	o	57	0	0	192
***************************************	-	0	0	0	0	-
Total Imports	106'69	25,235	65,882	2,361	8,407	171,786

Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Less than 500 barrels
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 21. Imports of Crude Oil and Petroleum Products by Source and PAD District, November 1982 (Thousands of Barrels)

								j						
Source	Crude Oif 1	LPG and Ethane	Unfin- Ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Dıstıl. Fuel	Resid Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							All PAD	Districts	4]	
Arab OPEC Algeria	4,693	00	0.0	٥٥	00	198	00	00	2,505	0 (00	2,703	7,396	247
Saudi Arabia	13.589	00	00	236	0	0	0	0	0 0	5	837	1073	378	289
United Arab Emirates	1,414	0	0	0	0	0	0	0	0	0	0	0	1,414	47
Subtotal Arab OPEC	19,695	0	0	236	0	198	0	0	2,883	0	837	4,154	23,850	795
Other OPEC														
Ecuador	669	0 (0	0 (0	0	0 (0	189	0	0	189	888	30
Gabon	2,556) £	o c	-	-	O C	0 0	ο ,	<u>ې</u>	0 0	00	0	2,556	9 93 93
	1,023	o F	0	0	30	0	0	- 0	9 0	0	0	ē C	1,023	3 4 5
Nigeria	14,205	0	0	٥	0	0	0	0	182	-	0	183	14,387	480
Venezuela	6,398	8	532	935	528	0 (451	422	6,211	467	445	9,784	16,182	539
Subtorial Cirier Oriec	32,785	233	255	656	338	0	451	423	5,612	467	4	10,737	43,522	1,451
Other														
Angola	1,305	٥	٥	0	0	0	0	0	0	٥	0	٥	1,305	4
Australia	0	0	0	0	0	0	0	o	0	o	(s)	(\$)	(s)	<u>(s)</u>
Bahamas	ပ	0	882	0	0	241	0	231	8	0	0	1,450	1,450	84
Brazil	1,210	0	0	0	243	o ·	o .	0	1,343	0	0	1,586	2,796	8
Brunel	217	2 1	0	0 88	0 (0 '	0 (0 ;	0	0 !	o ;	0	217	1
Canada	7,322	[CQ,0	3	, ,	8, 9	0 0	æ c	4 1 2	8	<u>5</u>	15	9,094	16,415	547
France	הלה'.	9	0	•		> <	> C	0	0 0	9	9	۰ و	n (9)	6
Ghana	0	0	· c	0	0	0	0	0	150	0	0	150	150	رب (و
Мехасо	25,066	691	0	0) (S)	0	0	2	0	4	on.	724	25.791	860
Netherlands	0	0	0	0	733	0	0	989	0	41	0	1,461	1,461	49
Netherlands Antilies	0	0 (978	0 (331	0	0	۰ ۰	4,892	0 (0 '	6,102	6,102	203
Norway)*(e/	-	o c	> c	0 0	5 C	5 C	D C	> C	0 0	5 C	0 0	79/1	D Y
People's Benights of China	2 5	c	0 0	0	981	c	> C		• =	o c	• •	ò	1,483	. r
Ped pedaga saids	388	0	0	• •	0	0	0	. 0	481	0 0	0	481	870	3 8
Puerto Rico	0	0	478	0	1,005	0	ю	0	0	0	937	2,421	2,421	81
Trinidad and Tobago	2,290	0	0	0	0	0	0	0	404	0	9	419	2,710	6
United Kingdom	18,207	126	0	116	0	0	0	0	215	o •	8 '	478	18,635	623
Virgin Islands	0	0	1,178	0 +	2,043	455	551	2,037	3,785	0 (0 (10,016	10,016	334
Carte Mosters	371	C	0	9	0	0	0	•	>	5	>	>	2/2	2
Hernisphere	139	0	0	56	0	0	0	319	1,630	75	0	2,051	2,190	73
Other Eastern Hemisphere	2,140	(8)	609	176	591	0	Ö	8	1,997	26	43	3,593	5,733	191
Subtotal Other	63,396	7,467	4,375	652	5,856	663	260	3,807	15,802	360	1,476	41,018	104,414	3,480
Total Imports	115,876	8,001	4,907	1,823	6,194	861	1,011	4,229	25,297	828	2,759	62,909	171,786	5,726
See footnotes at end of table														

Table 21. Imports of Crude Oil and Petroleum Products by Source and PAD District, November 1982 (Thousands of Barrels), (continued)

(politining)					i									
Source	Crude Oil 1	LPG and Ethane	Unfin- ished Oils	Gasoline Blending Compo- nents	Finshed Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD District I	strict I						
Arab OPEC														
Algera	1,984	o	0	0	0	198	0	0	2,503	0	0	2,702	4,685	156
Libya	0 ;	o (0 (0	0	0	0	0	378	0	٥	378	378	13
Subtotol Amb ODEO	4,284	0 0	0 0	0 0	0 (0 6	0 6	0 (0	0	ର :	ର :	4,304	43
Switted Alab Orce, where	0070	>	>	9	⊋	861	9	Ö	2,881	0	ଷ	3,100	9,367	312
Other OPEC														
Equador	348	0	0	0	0	0	0	0	189	0	0	189	238	18
Gabon	9,49	0	0	0	0	0	0	0	0	Q	٥	0	1,400	47
Indonesia	2,072	o (0	0 (0 (0 1	0	0	0	0	0	0	2,072	66
Veneziela	2,4) (4)	£32) (Y	0 26	0 0	0 7	0 5	0 20	0 7	o ;	0 9	4,730	55 E
Subtotal Other OPEC	11,251	8 8	532	4	3 85	00	45	42	5,976 6,165	<u>8</u>) 6 6 7	8,687	19,937	3/3 665
Other														
Angola	1,305	0	0	0	o	G	0	0	C	0	c	c	1 305	77
Australia	0	0	0	0	0	0	٥	0	0	0	<u>@</u>	<u>s</u>	§ (£	(S)
Bahamas	0	O	0	0	0	241	0	23	86	0	0	268	268	. 19
Brazil	364	0	0	0	243	0	0	0	1,343	0	0	1,586	1,950	65
Canada	0	392	0	-	56	0	83	354	273	35	282	1,370	1,370	46
France	0 ((S)	0	0	0	٥	0	0	0	0	(s)	(2)	(S)	(S)
Ghana	0 00	0 (0 (0	0	0	0	0	150	0	0	130	52	ß
Mexico	ממ ממ מ	o c	-	o 0	⊃ ¢	0 0	0 0	0 8	0 (0 0	0 (0 9	3,999	E
Notherlands dentiles	> c	-	979	o c	3 5	> c	> 0	8	000	5 6	> 0	0,420	24, 2	, 4
Norway	500	oc	5	•	Ş	9 6	> 0	> c	4. 0.01	> c	o c	9,10	9,102	3 5
Peru	389	0	0	0) C	•	· C	, c	48.	, ,) C	484	828	2 8
Puerto Rico	0	0	253	0	1.005	0	0	0	0	0	712	1.970	1970	3 %
Tunidad and Tobago	435	0	0	0	0	0	0	0	0	0	0	0	435	-
United Kingdom	6,594	126	0	116	0	0	0	0	215	0	ୡ	478	7,072	236
Virgin Islands	0	0	0	0	2,043	423	551	2,037	3,785	0	0	8,838	8,838	295
Care Worker	371	0	0	0	0	0	0	0	0	0	0	0	371	<u>5</u>
Conjection	c	•	-	•	c	•	ć	c	1.04	ć	•	1047	1017	ţ
Other Eastern Hemisphere	283	(s)	0	176	437	0	0	0	1.151	(<u>6</u>	(S)	764	2,327	2 8
Subtotal Other	14,520	517	1,231	294	4,718	88	260	3,309	13,734	35	1,014	26,075	40,596	1,353
Total Imports	32,039	580	1,763	741	4,976	861	1,011	3,731	22,780	286	1,132	37,862	69,901	2,330
			ļ		į		PAD District II	strict (i						
Arab OPEC	804	c	_	c	c	C	c	c	c	c	c	c	85	8
Sandi Arabia	1342	· C	• •	o C	o C					, c	· c	· c	1342	3.4
United Arah Emirates	350	0	0	0	0	0	0	0	0	0	0	0	350	12
Subtotal Arab OPEC	2,295	0	0	0	0	0	0	0	0	0	0	0	2,295	! 92
•														

See footnotes at end of table.

Table 21. Imports of Crude Oil and Petroleum Products by Source and PAD District, November 1982 (Thousands of Barrels)

The state of the s														
Source	Crude Oil 1	LPG and Ethane	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Disti. Fuel	Resid. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- ieum	Total (Daily Average)
·							PAD D	PAD District II						
Other OPEC Iran Nigeria	498 3,180 3,678	000	000	000	000	000	000	000	000	000	000	000	498 3,180 3,678	123 123
Canada Canada Egypt	4,809 999 0 4,531 2,118 12,899	5,056 0 0 0 0 0 5,056	250 0 0 0 0 0 250	8900008 8900008	N00000N	000000	000000	© © ©	45 0 0 0 0 0 4 4	% o o o o o w	(s) (s) (s) (s) 116	6,364 (s) 0 (s) 0 (s) 6,364	11,173 999 (s) 4,531 2,118 442 19,263	372 33 (s) 151 71 15
Total Imports	18,872	5,056	250	332	N	0	0	(8)	514	95	116	6,364	25,235	841
							PAD Di	PAD District III					ļ	
Arab OPEC Algeria	2,105 7,963 1,065 11,133	0000	0000	0000	0000	0000	0000	0000	N 0 0 N	0000	817 0 817	817 0 818	2,107 8,780 1,065 11,951	293 35 398
Cuber OPEC Ecuador Gabon Indonesia Iran Nigera Venezuela Subtotal Other OPEC	350 1,157 1,043 525 6,295 3,697 13,067	470 0 0 0 0 470	000000	0 0 0 0 0 488 884 888	000000	000000	000000	000000	0 0 0 0 182 234 162 163	22. 23.6 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16	33 34 44 84 84 84 84 84 84 84 84 84 84 84 84	0 470 0 1,286 1,939	350 1,157 1,513 525 6,478 4,984 15,006	39 50 18 216 166
Bahramas Barzil Canada Egypt France Mexico Norway Oman People s Republic of Chuna Puerto Rico Trinidad and Tobago United Kingdom Virgin Islands	0 847 0 950 0 11,267 432 591 591 0 1,856 9,495	00000	882 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000000	ට ට ට ට ට ට ට ට ට ට වූ	000000000000	0000000000000	0000050000000	000000000000000000000000000000000000000	(8) 0000 4 120000000000000000000000000000000	28 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	882 0 0 (s) 708 411 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1.178	882 847 847 950 (s) 17,24 41,267 432 591 591 9,495 9,495	(s) 288 (s) 32 (s) 32 575 142 142 143 143 143 144 145 145 145 145 145 145 145 145 145
alidad by han he and and and										}				

See footnotes at end of table.

Table 21. Imports of Crude Oil and Petroleum Products by Source and PAD District, November 1982 (Thousands of Barrels) (continued)

Source	Crude Oif 1	LPG and Ethane	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuet	Kero- sene	Distal Fuel Od	Resid Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD D	PAD District III						
Other Western Other Western Hemisphere Other Eastern Hemisphere Subtotal Other	139 1,135 33,247	0 0 697	0 609 2,893	26 0 26 26	0 (s)	000	000	319	283 561	75 97	21	707 1,288	843 2,423	28
Total Imports	57,447	1,167	2,893	514	(S)	0	0	330	1,666	433	1,431	5,5// 8,435		1,297 2,196
							PAD D	PAD District IV						
Other Canada Subtotal Other	1,738	570 570	00	00	00	00	00	& @	00	r-	52	623	2,361	79
Total Imports	1,738	570	0	0	Ö	0	0	(s)	0	· -	52 25	623	2,361	e e
,							PAD Di	PAD District V						
Arab OPEC Saudi Arabia	00	00	00	236 236	00	00	00	00	00	00	oc	236	236	ac c
Other OPEC Indonesia	4,789	00	00	00	808	00	00	- 1-	88	00) oc	2	6,900	. 65
Other Brunel	217	0 0	0	0	0	0	0	0	0) 6	· -	-		<u> </u>
Mexico	0	0	9	00	00	00	0 (s)	9 11	73	ħς	(s)	730	1,505	20
People's Republic of China Other Fastern Hemisphere	0 0	0 9	00	0 (981	0	0	; ;=	, 0	, 0	3 O	992	ο ₋ 66	~ e
Subtotal Other	895	(s) 627	5	00	154 1,135	00	0 (s)	89 89 89	30e 30e	0 t	2 22	541	3.271	8 8 6
Total Imports	5,781	627	0	236	1,215	0	(8)	169	337	10	27	2,626	8,407	280
Inchiden on the second														

1 Includes crude oil imported for storage in the Strategic Petroleum Reserve
2 Includes avration gasoline, waxes, asphalt, lubricants, natural gasoline, isopentane, plant condensate, naphthas less than 400 degrees F and miscellaneous products.
(s) Less than 500 barrels or less than 500 barrels per day.
Noter Total may not equal sum of components due to independent rounding
Sources See Explanatory Notes on Data Collection and Estimation

Table 22. Exports of Crude Oil and Petroleum Products by PAD District, November 1982 (Thousands of Barrels)

Commodity						
	_	п	H	2	^	Total
Crude Oil (including lease condensate) 1	0	1,207	0	0	6,652	7,859
Liquefied Petroleum Gases and Ethane	40	80	926	0	141	1,115
444444	0	0	<u>(s)</u>	0	0	(s)
Propane	28	ო	391	0	22	469
***************************************	ដ	5	535	0	2	646
Butane-Propane Mixtures	0	0	0	0	0	0
Finished Motor Gasoline (s)	(s)	51	280	0	12	343
Naphtha-Type Jet Fuel	(s)	0	0	0	0	<u>(s)</u>
	0	0	245	0	23	569
Kerosene	(s)	(s)	0	٥	(s)	-
		(s)	304	0	410	715
Residual Fuel Oil		0	2,127	0	3,346	5,475
Petrochem. Feedstock	47	9	16	(s)	•	71
Other Oils > 400 Deg, for Petrochem, Feedstock	0	53	493	0	(s)	522
Special Naphthas	ĸ	-	35	0	-	4
***************************************	107	12	219	<u>(s)</u>	2 9	395
Wax	Ŋ	<u>(s)</u>	œ	٥	ß	18
Petroleum Coke	ო	522	3,486	(s)	2,705	6,716
Asphalt	4	-	<u>(S</u>	-	2	ထ
	17	9	15	(S)	က	36
Total Product Exports	83	629	8,154	7	6,708	15,723
Total Exports	23	1,836	8,154	2	13,360	23,582

Exports of crude oil are prohibited under normal circumstances. Some crude oil is shipped to Canada in exchange on a barrel-forbarrel basis. Shipments of crude oil to Puerto Rico and the Virgin Islands are not prohibited because these territones are U.S. possessions.
 Less than 500 barrels

 Noter Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation

Table 23. Exports of Crude Oil and Petroleum Products by Destination, November 1982 (Thousands of Barreis)

12	Oude 1	LPG and Ethane	Finished Motor Gasoline	Jet Fuel	Puel of	Residual Fuel Oit	Special	Lubn- cants	Wax	Petro- leum Coke	Asphalt	Other	Total	Total (Daily Average)
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Table 23. Exports of Crude Oil and Petroleum Products by Destination, November 1982 (Thousands of Barreis) (continued)

Total (Daily Average)
Other
Asphalt
Petro- leum Coke
Wax
Lubri- cants
Special
Residual Fuel Oil
Oil Fuel
Jet
Finished Motor Gasoline
LPG and Ethane
Onde Oil 1
Destination

Exports of crude oil are prohibited under normal circumstances. Some crude oil is shipped to Canada in exchange, on a barrel-for-barrel basis. Shipments of crude oil to Puerto Rico and the Virgin Islands are not prohibited because these territones are U.S. possessions.
 Less than 500 barrels or less than 500 barrels per day.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

 24. Stocks of Crude Oil and Petroleum Products by PAD District, November 30, 1982 (Thousands of Barrels)

	United	cigles		107.802	202,476	21,561	289,963	24,188 645,990			337,537	65,808	809,116		586 1.022	4,718	0,000	157	4,257	t f	187	1,305	153	<u>.</u>	,	418 647	7 24	2,596	5,405	i i	552 552		4,050	7.786	31,496	57,318
	PAD Dist V West	Coast		26,400	30,161	1,726	0	24,188 82,475			63,319	4,201 899	87,731		ig w	85 85	3	0	6 1 6	ı	C	0	00	•	•	> C	0	00	o	c	-		218	- C	347	565
	PAD Dist IV Rocky	Mt		1,559	9,914	1,412	o	0 12.885	+		12,477	2,627	18,272	•	82	51	!	٥	9 9	;	0	0	8 2	}	c	9 0	0	(S)	<u>e</u>	c	0		173	114	165	489
	Total			48,947	98,474	16,778	289,963	0 454,162			143,160	38,222 44,318	277,463	i	8 8 8	3,360	:	56	1,827		181	1,305	87		90	267	372	2,138	5	707	404		1,759	1,854	18,466	33,850
	New	Mexico		ı	ı	ſ		1			1,273	1,018 896	3,658	,	3 8	8 8 8		0	156 156		0	17	- 62	?	c	o c	o 00	0 "	9	c	0		4 0	151	289	4
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	La. No La	Coast		1	ł	1	ı	1 1			7.066	7,072	73,460	40	90	508 843 843		28	2 8 2 9		0	49	S		C	• 0	114	413	3	900	389		606 606	245	5,787	6,947
	Texas	Coast		ı	1	I	I	1 1			34.720	7,576	145,737	4	8	2,414 2,649		8	1,302		75	365	474 474		409	727	78	1,363		α	000		766	8	5,756	18,157
	Texas	mann		ı	ı	I	ı	1 1		4	5,359	8,008 5,818		3	21.	382		0	307		5	866	36 912		0	0	177	36.	}	c	0	1	167	493	3,068	3,603
	Total			15,104	61,055		3 C	7,74		030 03	63,896	34,617 19,061	3	191	405	1,250		101	2,498		9	01	ر 13 م		on	120	1,173	458 1.760	}	73	23.5		1,535	3,284	11,426	000'11
		Mo		l	i	I	I	II		20 407	11,175	17,240 16,488 65,400	3	115	310	1,637		នុ	2,323		0	01	വ വ		0	4	159	& & & %		-	-		246 435	1,900	9,149	2011
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-	Total			15,792	יים ניסיי	3 =	0	18,724		48.621	156,882	31,456 1,155 238,114		ĸ	0 %	37		00	00		0	> c	0		0	0	0	00		72	72	Š	586	2,534	1,091	>
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	Commodity		Crude Oil (Incl. lease condensate)1	Hennery Tank Fams and Proelines	Leases	ď,	Alaskan In-Transit	Total	Petroleum Products	Refinery	Bulk Terminal	Natural Gas Processing Plant	Natural Gasoline and leaventers	Refinery	Pipeline	Total	Unfractionated Stream	Pipeline		Plant Condensate	***************************************	Gas Processing Plant	Total	Ethane	Refinery	Bulk Terminal	Pipeline	Total	Propage for Petrochemical Feedstock Hea	Refinery	Total	Propane for Other Uses	Bulk Terminal	Pipeline	natural Gas Processing Plant Total	

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, November 30, 1982 (Thousands of Barrels) (continued)

	Commodity East Coast	Butane for Petro, Feed, Use Refinery	Butane for Other Uses Refinery	Butane-Propane Mixtures for Petro. Feed. Use Refinery	Butane-Propane Mixtures for Other Uses Refinery Bulk Terminal	Ethane-Propane Mixtures Bulk Terninal Pipeline Pipeline Phoeline Phoesing Plant Total Landon	Refinery	Other Hydrocarbons and Alcohol Refinely	Unfinished Oils Refinery Naphthas and Lighter Kerosene and Lighter Gas Oils Heavy Gas Oils
	4	00	99 262 30 17 408	00	00000	0000	000+ <u>0</u>	00	3,521 1,662 7,079 1,518 13,780
	Appala- chian Tot	00	0 126 5 131	00	00000	0000	60001	ស	308 9 481 257 1,055
-	न्त	00	99 262 156 22 539	00	00000	0000	18 0 0 0 8 12	र र	3,829 1,671 7,560 1,775
	Appala-	00	261 0 0 0 261	00	00000	0000	81 0 81	00	99 2 2 741
2 GAG	III. Ky. W	00	273 402 922 66 1,663	00	0 0 3 3 199	0 0 0 99	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	88	2,455 2,252 5,837 3,084 13,628
DAD Dietnet II	Minn. O Wisc. K	17	49 15 14 78	00	00000	0000	0 0 4 7 7	00	137 10 297 43 487
	Okla, Kans, T Mo.	00	181 71 264 849 1,365	00	0 0 0 8 8 0 t	1 464 1,174 1,639	152 8 94 1,281	00	1,280 1,138 1,850 1,461 5,729
-	Total In	17	764 473 1,201 929 3,367	00	196 20 302 302	530 1,174 1,705	271 80 553 1,330 2,234	88 88 88 88	3,918 3,400 8,083 4,590 19,991
	Texas inland	00	121 109 882 1,004 2,116	00	1 0 614 32 647	255 510 240 1,005	102 99 177 154 532	,- 	901 328 817 522 2,568
	Texas Gulf Coast C	52 52	329 3,365 95 4,202 7,991	00	16 45 7 69	1,552 59 4,833 6,444	254 1,888 10 2,187 4,339	70	6,200 7,204 12,415 3,793 29,612
PAD District III	Coast Ar	00	1,109 0 5 2,699 3,813	00	55 0 14 (s) 69	0000	557 0 0 1,321 1,878	37	3,951 1,140 6,787 3,492 15,370
# H	ਰ 보	იი	2 0 163 137 302	00	00000	0000	50 50 54 114	00	184 100 800 72 111,1
	New T Mexico	00	3 75 91	00	e± o ← o S	0 118 256 374	7 0 49 68 124	00	97 3 148 0 248
	Total N. T. D.	28 28	1,564 3,474 1,220 8,134 14,392	00	91 674 41 807	1,807 689 5,329 7,825	930 1,987 286 3,784 6,987	108	11,333 8,775 20,967 7,834 48,909
PAD P		00	163 0 130 42 335	00	40004	0 0 125 0 125	29 0 36 1	00	492 252 1,261 728 2,733
PAD		010	622 0 0 491 1,113	00	278 0 0 4 282	0000	50084	00	5,848 3,635 10,222 5,506 25,211
	States	47	3,212 4,209 2,707 9,617 19,745	00	373 197 694 131 1,395	1,308 1,344 6,502 9,654	1,260 2,067 875 5,148 9,350	27.	25,420 17,733 48,093 20,433 111,679

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, November 30, 1982 (Thousands of Barrels) (continued)

	h b	PAD District			P _A	PAD Dietnet II	=						j				
Commodity	East	Appala- chian	Total	Appala-	Jg.	Minn.	Okla,		Texac	Texas	<u> </u>	_			PAD	PAD	
	1903	ī.	_	2	II. Ky	Daks	Mo .	lotal	Inland	Seuff Coast	the Court	No. La.	New	Total		West	States
Motor Gasoline Blending Components													1		ا ک	Coast	
Bulk Terminal	4,578	. 118	4,696	8	5,423	592	1,684	7,733	1.342	8 508	7 403	Ş					
	0	9 0	99 C	ro c	<u>ස</u>	۰- د	49	188	53	45	y 0	200	149	17,334	1,886	8,130	39,779
E50 I	4,872	118	4,990	9	5,556	595	275	217	120	0	0	0		2 2	o o	2 0	673 229
Aviation Gasoline Blending Components							2	3	, t	8,5/3	7,182	133	149	17,444	1,886	8,223	40,681
Total	0 (0	0	0	97	0	7	104	96	ě	·						
PPD magg bhi annoced commenced to the co	o	0	0	0	97	0	7	2	3 8	3 %	14B	0 0	0 0	203	0	38	351
Total Finished Motor Gasoline										}	2	5	>	505	0	38	351
Bulk Terminal	5,271	266	5,537	100	5.637	1.450	4 137	700	,								
Pipeline	36,433	3,597	40,030	1,780	17,422	3,772		28 248	2,450		5,216	1,030		17,234	2,339	7,098	43.532
Natural Gas Processing Plant	046,41 8		15,591	734	6,911	1,200	7,466	16,311	2,403	3 738	278,1 276,0	2,526	292	12,538	1,706	9,533	92,055
Total Finished Motor Gasoline	56,652	4,514	61.166	2614	0 020	0 (0			0	<u> </u>		4/2,81	1,208 2,208	2,359	53,743
Finished I saded Most of					0,00	0,424	//8'01	55,883	7,391	17,473 1	11,375 1	11,157				0 0	32
Refinery	0 530	445	Ç	i													200,501
Bulk Terminal	17.71	1.616	19327	58 976	2,535	900	2,433	5,924	1,349	3,898	5,699	816	9	,	!		
Pipeline	6,428	345	6.770	348	2000	2,245	3,456	15,110	1,297		838	1.285		6.04	\$ 6 6	3,045	21,942
Natural Gas Processing Plant	α	0	0	ę o	00010	8 0	4,643	8,727	1,556			3,736		9.285		5,181	45,986
+ CLEA	26,677	2,103	28,780		14,068			29 761	0 00			0		0	18	3 0	27,02
Finished Unleaded Motor Gasoline									4,402	8,834	5,141	5,837	360 2	24,474		986,	95,678
Refinery	2,741	121	2.862	44	3 100	C II											
Pipeline	18,715		20,696	904	8,854	1,527	1,817	3.102	1,101,1	4,470	2,517	214		6,393		4,047	21,583
Natural Gas Processing Plant	210,0		8,821	386	3,911	463						1,241	ន្ទ	5,190		4,352	45,026
	29 96	244	ט גיר נינ	0 ;		0			0			, 000, C		8,389		1,199	27,019
	200		56,578	1,334	5,867	2,540	6,344 2	26,085	3,189			5,320		23.572	1 000	0 00	2000
Cassonol																060'	95,633
Refinery	0	0	0	0	0	0	C	c	c	(,	,					
Pipeline	·~ (0 (~	0	35	0	-	98	> C	> C	> c	D	0	0	-	9	7
Total	1 C	.	O 1	0	0		0	-	· c) C	> -	> c	5 6	o :	0	0	43
am 70 v namegophhhhumagophate gempe tergophhhumagophumagoph	_	0	7	0	35	-	-	37	0	0	o c	> c	> (0 (0	0	- -
Finished Aviation Gasoline											•	,	>	>	-	φ	5
Refinery	24	0	54	0	103	C	ő	143	Ş	ć	•						
Pinalina	433	4	474	17	257	4	8 8	383	7 £	9	040	، ٥	0	492	36	239	933
Natural Gas Processing Plant	<u>∞</u> c	0 0	18	0	7	0	31	4	} •	y 0	4 C	9 0	28	159	р (427	1,462
Total	7,20	> 1	o 0	o į	0	0	0	0	8	0	0	· c	> c	٠ ل <u>ـ</u>	-	0	90
	2	.	316	11	371	4	135	267	132	352	, 1 4	² 운	28.0	716	o ř	0	9 69
Naphtha-Type Jet Fuel Refinen:														•	}	3	026,2
Bulk Terminal	129	89	168	0	472	29	273	812	271		141	0					
Pipeline	185	2 0	17	8 8	174	37			171	2						120	3,968
Total	32.	6 6	370	7 4	0 479	8 £	ნ (171	171		52	95				2 2	2/2
		!	;	?	o F	701	-		613				392 2,	2,546	346	1.445	1,297 6,035
See footnotes at end of table.	!										i					È	2,000

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, November 30, 1982 (Thousands of Barrels) (continued)

	PA	PAD District			PAI	PAD District II					PAn Detare III	I te			PAN	CAO	
Commodity	East Coast	Appala- chian #1	Total	Appala- chian #2	Ind.,	Minn., Wisc., Daks.	Okla, Kans,	Total	Texas	Texas Gulf Coast	Guif Coast		New Mexico	Total	Dest. IV Rocky Mr.	Dist V West Coast	United
Kerosene-Type Jet Fuel Refinery	1,316	0 6	1,316	33	1,301	52	188	1,580	325	2,489	2,483	- 1	8 8	5,324	352	3,204	11,776
Pipeline	2,784	3 52	2,940	3 <u>6</u> 9	515	115	1,335	2,074	78 E	1,219	489	1,326	4 5	3,834	15	433	13,336 9,396
Natural Gas Processing Plant	9,765	309	10,074	211	0 4,316	0 88 0	2,065	7,075	1,302	5,391	3,053	(s) 1,368	ු කි	(s) 11,182	623	5,554	(s) 34,508
Kerosene Refinety Bulk Terminal	375 4.284	346 313	421	0 27.1	694	29	195	918	2 5	1,001	591	19	65 0	1,715	7.	8 4	3,143
	733 0 5,392	13 0 372	746 0 5,764	330 08	116 0 2,125	0 0 0	20 03	207	72 67	91	152 0 787	191	0 - B	406 3 2,629	. 4	123 0 15	1,360
Total Distillate Fuel Oils Refinery Bulk Terminal Peoline Pipeline Natural Gas Processing Plant Total Distillate Fuel Oil	9,985 66,177 8,980 0 85,142	368 2,875 306 0 3,549	10,353 69,052 9,286 0 88,691	49 438 438 0 1,831	8,030 13,775 2,064 0 23,869	1,811 3,668 993 0 6,472	4,497 3,751 4,836 1	14,387 22,538 8,331 1 45,257	1,395 1,395 684 1 3,399	9,888 5,619 1,678 0 17,185	5,885 1,608 1,578 0 9,071	1,314 1,235 4,217 0 6,766	256 99 82 0 437	18,662 9,956 8,239 1 36,858	2,040 839 630 0 3,509	5,532 4,668 1,077 0 0	50,974 107,053 27,563 2 185,592
Dist. Fuel Oils Less No. 4 Fuel Oil Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	9,985 64,282 8,980 0 83,247	364 2,872 306 0 3,542	10,349 67,154 9,286 0 86,789	49 1,335 438 0 1,822	8,002 13,747 2,064 0 23,813	1,811 3,668 993 0 6,472	4,497 3,751 4,836 1	14,359 22,501 8,331 1 45,192	1,275 1,343 684 1 3,303	9,658 5,619 1,678 0 16,955	5,630 1,607 1,578 0 8,815	1,242 1,235 4,217 0 5,694	189 99 82 0 370	17,994 9,903 8,239 1 36,137	2,038 839 630 0 3,508	5,487 4,632 1,077 0 11,196	50,228 105,029 27,563 2 182,822
No. 4 Fuel Oil Refinery Bulk Terminal	1,895 1,895	4 th	4 1,898 1,902	000	8 8 8	000	000	28 37 65	4 5 8	8008	255 1 256	50 52	67 0 67	688 53 721	~ O ~	54 % 88 #8	746 2,024 2,770
Residual Fuel Oils Refinety Bulk Terminal Pipeline	4,289 31,357 0 35,646	20 607 723 0 527	4,411 31,958 0 36,369	110 216 0 326	2,129 1,294 3,423	295 149 444	154 649 0 803	2,688 2,308 0 0 4,996	410 309 0 719	5,511 2,279 1 7,791	4,136 3,133 0 7,269	281 25 306	56 0 0 56	10,394 5,746 16,141	513 0 0 513	6,654 1,736 22 8,412	24,660 41,748 23 66,431
Naphtha < 400 Deg. Petro. Feedstock Refinery Total	193 193	00	193 193	00	51 21	00	88 88	125 125	132 132	953 953	276 276	တ ဟ	00	1,367	00	315 315	2,000
Other Oils > 400 Deg. Petro. Feedstock Retinery	נטינט	00	ro ro	00	135 135	00		136 136	200	1,166	272	88	00	1,670	00	383	2,194 2,194

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, November 30, 1982 (Thousands of Barrels) (continued)

Special Naprilisa Commodity East Appala Appala Inchian Inchian Inchian Inchian Inchian Inchian Inchian Minim, Okta Minim, Okta Minim, Okta Minim, Okta Minim, Okta Minim, Okta Minimal Gas Processing Plant Total		1		_	4				Dist. V	United
1,174	ans. Total	I tnland		Gulf Coast	No La.	Mexico	Total	Rocky Mt.	West	States
Transis			}			{		1		
Case Processing Plant 770	90.	435 35	1,256	8 0	<u></u>	ဂ (1,482	co c	96	2,214
Stock		~	20	0	<u>,</u>	0	133	0 0	o c	<u>.</u> #
tb tb<		662 168	1,376	20	140	0	1,754	8	196	3,46
Stock										
1,174 0 1,174 0 0 0 0 0 0 0 0 0			251	8	C	c	234	c	**	5
Continuing Con	+		1,859	1,042	79	0	2,980	22	521	5,56
*** corystaline 3 37 40 0	126	283 39	2,042	286	184	ρ.	2,551	~ 0	101	3,7
7 70 40 0			4,165	1,608	33.8	N 6	6,149	r 69	1,191	12,648
**stalline-Fully Refined 10 45 55 0 20 0 **stalline-Fully Refined 10 45 55 0 20 0 **stalline-Other 6 74 80 0 0 0 **n Coke 1,174 0 1,174 0 1,174 0 0 **mineal 1,735 27 1,762 219 1,678 479 **mineal 1,523 383 2,006 142 961 357 **mineal 1,623 383 2,006 142 961 357 **mineal 1,623 383 2,006 142 961 357 **mineal 1,623 383 2,006 142 961 357 **mineal 0 0 0 0 0 0 **mineal 26 0 0 0 0										
**stalline-Fully Refined 10 45 55 0 20 0 **stalline-Other 6 74 80 0 0 0 **n Coke 1,174 0 1,174 0 1,174 0 0 **mineal 1,174 0 1,174 0 1,174 0 0 **mineal 1,174 0 1,174 0 1,174 0 0 **mineal 1,174 0 1,174 0 1,174 0 830 63 **mineal 1,523 383 2,006 142 961 357 **mineal 3,356 410 3,768 361 2,639 836 **mineal 0 0 0 0 0 20 0 **mineal 3,356 410 3,768 361 2,639 836 **mineal 0 0 0 0 0 0 0 **minea	4 4	14 28 14 28	88	55		0 0	67	00	00	121 121
10 45 55 0 20 0 0 0 0 0 0 0			8	ŗ	•	c	i	;	į	;
racoke 74 80 0<	52	47 0	88	175	00	00	258 258	5 5	8 8	\$ \$
1,174 0 1,174 0 830 63 1,174 0 1,174 0 830 63 1,174 0 1,174 0 830 63 1,174 0 1,174 0 830 63 1,174 0 1,174 0 830 63 1,174 0 1,174 0 830 63 1,174 0 1,174 0 1,678 479 1,174 0 1,279 1,678 479 1,174 0 0 0 0 0 1,174 0 0 0 0 0 1,174 0 0 0 0 0 1,174 0 0 0 0 0 1,174 0 0 0 0 0 1,174 0 0 0 0 0 1,174 0 0 0 0 0 1,174 0 0 0 0 0 1,175 0 0 0 0 0 1,175 0 0 0 0 0 1,14 0<	~ ~	7 0 7	131	00	00	00	रु ह	٥٥	==	229 229 229
f.mintal 1,735 27 1,762 219 1,678 479 f.minal 3,358 410 3,768 361 2,639 836 f.minal 0 0 0 0 0 0 gas Processing Plant 26 0 0 14 34 das Processing Plant 359 54 413 1 89 17	1,140 2,033 1,140 2,033	33 33 0	146 146	438 438	218 218	00	802 802	713	1,971	6,693 6,693
runtal 359 54 413 1 89 1,678 479 runtal 2,639 836 2,006 142 961 357 runtal 2,639 836 361 2,639 836 runtal 333 54 387 1 71 14 runtal 2,639 836 Gas Processing Plant 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			i		į					
Company Comp	822 3,198 113 1,573 935 4,771	38 503 77 503	280 °85	1,064 1,064	82 z 528	5 ° 5	3,077	<u>.</u> . <u>†</u>	1,191 1,331	3,958 14,091
333 54 387 1 71 14 2			c	c	٠	c	٠	d	ć	
26 0 26 0 14 3 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00	20 02	00	00		00		0	3 8	5. 8
333 54 387 1 71 14 26 0 26 0 14 3 0 0 0 0 0 0 0 0 0 0 0 0 359 54 413 1 89 17										
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ნ ი	99 48	4	30g	99 4	00	857	- (202	1,546
359 54 413 1 89 17			o 1~	<u>v</u> c	<u>o</u> 0	> @	4 6	0 C	2	17
	,	32	824	. —	93		950	,	> 0	O)
	15		1,271	316	175	(B)	1,852	0	315	2,704
Total Stocks, All Oils	- 265,278	78 -	l	1	1	-	731,625	31,157	170,255	1,455,155
) 	
 includes 33799 thousands of barrels of domestic crude oil. Less than 500 barrels 										
Note: Total may not equal sum of components due to independent rounding. Source: See Evplanatory Notes on Data Collection and Estimation										
— Not Applicable.										

Table 25. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, November 1982 (Thousands of Barrels)

- incomment		From I to			From II to	t to			From III to	ll to		ŭ.	From IV to		u.	From V to	
Auroningo	=	=	>	1	=	2	^	1	=	2	^	11	111	^	_		Ξ
Crude Oil	0	0	0	0	0	0	0	405	1,574	0	Ó	0	0	0	1,654	0	18,248
Petroleum Products	8,700	528	0	3,504	5,630	2,481	0	94,337	24,933	0	2.426	1,296	8	1.323	0	0	48
Natural Gasoline and Isopentane		0	٥	0	329	0	0	0	1.212	0	0	352	4	0	0	O	۵
Unfractionated Stream	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant Condensate	0	0	0	0	0	0	0	0	0	0	0	0	O	0	٥	0	0
Liquefied Petroleum Gases	0	83	0	1,018	1,738	148	۵	1,686	5,799	0	0	114	29	0	0	٥	0
Unfinished Oils	0	351	0	0	0	0	0	1,314	0	0	0	0	0	0	0	0	0
Motor Gasoline Blending Components	0	0	0	0	0	0	0	0	749	0	0	0	0	0	0	0	0
Aviation Gasoline Blending Components	۵	0	a	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	5,544	0	0	1,527	2,029	1,552	0	49,165	11,592	0	973	486	0	861	0	Þ	0
Finished Leaded Motor Gasoline	3,049	0	0	619	1,132	876	0	22,641	5,649	0	569	366	0	671	0	٥	0
Finished Unleaded Motor Gasoline	2,495	o	0	908	897	929	0	26,524	5,943	0	404	120	0	190	0	0	0
Gasohol	0	0	0	0	0	0	0	0	0	0	0	0	٥	٥	۵	a	٥
Finished Aviation Gasoline	10	0	0	0	0	ക	0	168	120	0	0	0	0	0	0	0	0
Naphtha-Type Jet Fuel	172	0	0	0	88	0	0	715	0	0	23	82	0	107	0	0	0
Kerosene-Type Jet Fuel	8 3	0	0	126	25	633	٥	10,549	2,104	0	177	4	0	5	0	0	0
Кегозеле	87	0	0	0	0	0	0	1,310	ස	0	0	0	0	0	0	0	0
Distillate Fuel Oil	2,479	0	0	366	<u>8</u>	139	0	24,902	2,311	0	370	255	0	9 8	0	0	٥
Distillate Fuel Oil Less No. 4	2,479	٥	0	386	746	139	0	24,559	2,311	0	370	255	0	ğ	0	0	0
No. 4 Fuel Oil	0	0	0	0	145	0	0	343	0	0	0	0	0	0	0	0	0
Residual Fuel Oil	0	0	o	178	457	0	0	2,681	152	0	475	0	0	0	0	0	0
Naphtha and Other Oils for Petro			•						!								
Feedstock	14	0	0	တ	g	0	0	ģ	92	0	0	0	0	0	0	0	5
Special Naphthas	0	0	0	œ	0	0	0	195	114	0	0	0	0	0	0	0	0
Lubricants	141	35	0	8	4	0	0	488	240	0	207	0	0	0	Ö	0	ĸ
Wax	0	0	0	0	0	0	0	5	0	0	0	0	0	٥	٥	0	0
Asphalt and Road Oil	0	102	0	182	0	0	0	310	283	0	0	0	0	O	0	0	0
Miscellaneous Products	8	17	0	72	0	0	0	787	127	0	က	0	0	0	0	0	13
Total All Products	8,700	528	0	3,504	5,630	2,481	0	94,742	26,507	0	2,426	1,296	18	1,323	1,654	0	18,296
																	-

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 26. Movements of Petroleum Products by Pipeline Between PAD Districts, November 1982 (Thousands of Barrels)

Commodity	From 1 to	1	From II to			From III to	III to		L.	From IV to	
	=	-	111	2	-	=	2	>	=	=	>
Natural Gasoline and Isopentane	0	0	329	0	0	1,212	0	0	352	7	0
Unfractionaled Stream	0	0	0	0	0	0	٥	0	0	0	0
Plant Condensate	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gases	0	1,018	1,738	148	1,463	5,799	0	0	114	29	0
Motor Gasoline Blending Components	0	0	o	0	0	749	٥	0	0	0	0
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	4,268	1,295	2,009	1,552	37,539	10,907	0	973	486	0	9
Finished Leaded Motor Gasoline	2,323	534	1,112	876	17,760	5,312	0	569	386	0	671
Finished Unleaded Motor Gasoline	1,945	761	897	676	19,779	5,595	0	404	120	0	190
Gasohol	0	0	0	0	0	0	0	0	0	0	0
Finished Aviation Gasoline	2	0	0	თ	8	87	0	0	0	0	0
Naphtha-Type Jet Fuel	0	0	89	0	256	0	0	22	85	0	107
Kerosene-Type Jet Fuel	43	119	25	633	6,840	1,833	0	177	4	0	5
Kerosene	54	0	0	0	836	29	0	0	0	O	O
Distillate Fuel Oil	1,673	327	746	139	19,826	1,804	0	370	255	0	304
Distillate Fuel Oil Less No. 4	1,673	327	746	139	19,826	1,804	0	370	255	0	304
No. 4 Fuel Oil	0	0	0	0	0	0	0	0	0	0	0
Residual Fuel Oil	0	0	٥	0	0	0	0	0	٥	0	0
Miscellaneous Products	0	72	0	0	0	32	0	0	0	0	0
Total programme with the programme and the progr	6,148	2,831	4,942	2,481	66,788	22,482	0	1,741	1,296	8	1,323
						i	İ				

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collecton and Estimation

Table 27. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 1982 (Thousands of Barrels)

	ш. 	From 1 to			From II to				From III to	Ill to			L	From V to	
Commodity	=	=	>	_	æ	>		New Eng	Cent	Low	=	>	_	=	=
Crude Oil	0	0	0	0	0	0	405	0	405	٥	1,574	0	1,654	•	18,248
Petroleum Products	2,552	528	0	673	688	0	27,549	3,350	7,068	17,131	2,451	685	0	0	48
Liquefied Petroleum Gases	0	R	0	0	0	0	223	0	0	233	0	0	0	0	0
Unfinished Oils	0	351	O	0	0	٥	1,314	0	1,292	ช	0	0	0	0	0
Finished Motor Gasoline	1,276	O	0	232	ଷ	0	11,626	367	542	10,117	685	0	0	٥	0
Finished Aviation Gasoline	0	0	0	٥	0	0	140	14	42	84	ဗ္ဗ	0	0	0	0
Naphtha-Type Jet Fuel	172	0	0	0	0	0	459	0	195	564	0	٥	0	0	0
Kerosene-Type Jet Fuel	8	٥	0	7	0	0	3,709	822	958	2,522	27	0	0	0	0
Kerosene	8	0	0	0	0	0	474	0	243	231	0	0	0	0	0
Distillate Fuel Oil	908	0	0	33	145	0	5,076	1,258	1,491	2,327	207	0	0	0	0
Residual Fuel Orl	0	0	0	178	457	0	2,681	882	1,145	654	152	475	0	0	0
Naphtha and Other Oils for Petro. Feed. Use	7	0	0	O)	ន	0	¥	0	ង	32	65	0	0	0	10
Special Naphthas	0	0	0	æ	٥	٥	195	0	76	119	114	0	0	0	0
Lubricants	141	32	0	18	43	0	488	0	384	104	240	207	0	٥	52
Wax	ø	O	0	0	0	0	1 3	0	13	0	0	0	0	0	٥
Asphalt and Road Oil	0	102	0	182	0	0	310	0	co.	301	289	0	0	0	٥
Miscellaneous Products	8	17	٥	0	0	0	787	0	656	131	95	ო	0	٥	13
Total	2,552	528	0	673	688	0	27,954	3,350	7,473	17,131	4,025	685	1 654	0	18,296

Note: Total may not equal sum of components due to independent rounding Source. See Explanatory Notes on Data Collection and Estimation.

Table 28. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge Between PAD Districts, November 1982 (Thousands of Barrels)

	"	P.A.D. District	_	<u>a.</u>	P.A.D District II	=	P.4	P.A.D. Distnet III	11	P.,	P.A.D Distnot IV	λ	Ф	P A D District V	
Commodity	Receipts into PADD I	Shipments from PADD I	Net Receipts PADD I	Receipts into PADD II	Shipments from PADD II	Net Receipts PADD II	Receipts into PADD III	Shipments from FADD III	Net Receipts PADD III	Receipts into PADD IV	Shipments from PADD IV	Net Receipts PADD IV	Receipts into PADD V	Shipments from PADD V	Net Receipts PADD V
Crude Oil	2,059	0	2,059	1,574	0	1,574	18,248	1,979	16,269	0	0	0	0	19,902	-19,902
Petroleum Products	97,841	9,228	88,613	34,929	11,615	23,314	6,287	121,696	-115,409	2,481	2,700	-219	3.749	48	3,701
Natural Gasoline	0	0	0	1,564	329	1,235	343	1,212	-869	0	366	-366	0	0	0
Unfractionated Stream	0	0	0	Q	0	٥	a	0	o	0	0	0	0	0	0
Plant Condensate	0	0	0	o	0	0	0	0	0	0	o	0	0	0	0
Liquefied Petroleum Gases	2,704	23	2,681	5,913	2,904	3,009	1,828	7,485	-5,657	148	181	-33	0	0	0
Unfinished Oils	1,314	351	963	0	0	0	351	1,314	-963	0	0	0	0	0	0
Motor Gasoline Blending Components	o	0	0	749	0	749	0	749	-749	0	0	0	0	0	O
Aviation Gasoline Blending Components .	o	0	0	0	0	0	0	0	0	o	0	0	0	0	0
Finished Motor Gasoline		5,544	45,148	17,622	5,108	12,514	2,029	61,730	-59,701	1,552	1,347	205	1,834	0	1,834
Finished Leaded Motor Gasoline	23,260	3,049	20,211	9,064	2,627	6,437	1,132	28,859	-27,727	876	1,037	-161	1,240	0	1,240
Finished Unleaded Motor Gasoline	. 27,432	2,495	24,937	8,558	2,481	6,077	897	32,871	-31,974	9/9	310	366	594	0	594
Gasohol	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finished Aviation Gasoline	168	10	158	130	တ	121	0	288	-288	6	0	O	0	0	0
Naphtha-Type Jet Fuel		172	543	257	89	189	89	936	888	0	192	-192	328	0	328
Kerosene-Type Jet Fuel		233	10,442	2,341	811	1,530	25	12,830	-12,778	633	55	578	228	0	228
Kerosene	1,310	87	1,223	146	0	146	0	1,369	-1,369	0	0	0	0	0	0
Distillate Fuel Oil		2,479	22,789	5,045	1,396	3,649	891	27,583	-26,692	139	559	420	674	o	674
Distillate Fuel Oil Less No. 4	. 24,925	2,479	22,446	5,045	1,251	3,794	746	27,240	-26,494	139	529	-420	674	0	674
No 4 Fuel Oil	343	0	343	0	145	-145	145	343	-198	0	0	٥	0	0	0
Residual Fuel Oil	2,859	0	2,859	152	635	483	457	3,308	-2,851	0	0	0	475	0	475
Naphina and Other Oils for Petro.	6	7	ç	f	ć	į	8	,	ć	(•	,	•	•	ç
ביייי יייייייייייייייייייייייייייייייי		<u>+</u> (7	2	3,4	t	3	20 (P	> 1	5 (۰ د	> (2 (2 (
special Naphthas	503) ;	203	114	ю ;	106	D (308	-308 -308	o (-	0	P	ָי כ	o !
Lubricants	•,	٩/١	230	188	6	320	103	935	-832	0	0	Ö.	202	5	182
Wax		0	t.	0	0	0	0	<u>ლ</u>	13	0	0	0	0	0	0
Asphalt and Road Oil		102	390	289	182	107	102	299	497	0	0	0	0	0	0
Miscellaneous Products	820	37	822	147	75	55	30	917	-887	0	0	0	ო	e e	19
Total All Products	006'66	9,228	90,672	36,503	11,615	24,888	24,535	123,675	-99,140	2,481	2,700	-219	3,749	19,950	-16,201

Note: Total may not equal sum of components due to independent rounding.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 29. Production of No.4 Fuel Oil and Residual Fuei Oil By Sulfur Content, November 1982 (Thousands of Barrels)

		States	11 814 44 44 45 60 60 60 60 60 60 60 60 60 60 60 60 60
	PAD	West	
	PAD	Dist. IV	
		Total	675 42 22 22 22 251 0 350 350 343 1,882 1,882
l		New	240 0 0 240 0 0 77 7 7 8 8 9 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	Strict III	No La. Ark.	64 64 64 64 64 64 64 65 65 65 64 64 65 64 65 64 65 65 65 65 65 65 65 65 65 65 65 65 65
	PAD District	Coast Fa	328 26 26 16 16 0 286 5,786 93 823 823 823 1,162
	Tomos	Soulf Coast	15 15 0 0 0 0 0 0 0 0 0 0 1,548 1,970 1,97
	-	Texas	25 22 22 3 3 141 141 421 780 780 780 780 780 780 780 780 780 780
	T	Total	33 0 0 0 0 0 0 2 2 2 2 166 920 871 715
	OKIA :	Kans.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PAD District	Mmn.	Wisc, Daks	0 0 0 0 0 0 0 0 127 211
PA]	II. Ky.	33 0 0 0 0 0 0 0 23 16 40 633 632 480 480
		chian #2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
_		Total	2 2 0 0 0 0 0 395 721 7737 473 724
PAD District	Appala-	chan #1	7 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PA	East	_	0 0 0 0 0 0 3,935 370 721 1,737 383 383
	Commodity		No. 4 Fuel OII

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 30. Stocks of No.4 Fuel Oil and Residual Fuel Oil By Sulfur Content, November 1982 (Thousands of Barrels)

	ď	DAD Dietnet	-		340	OAO Orester !!		-									
Commodity	East	Appala- chian	Total	Appala-	Ind.	Minn.	Okla. Kans	Total	Texas	Texas	La. No La		New			Dist V	United
		Ŧ			-1	_	Mo	\neg		\dashv	Coast	Ark.		ig C	Mt	Coast	States
	c	•	•	ć	•	ć	•	•	•	,	ŀ				,	•	
Bulk Temmal	644	† O	4 4	0	0	0	0	0	- 0	- c	<u>,</u>	4 C	۵ د	g c	٥ ٥	0 0	99
- 1	44	4	848	0	0	0	0	0	0	· 	57,	4	0	82	9	. .	7.5
No.4 Fuel Oil - 0.31 to 0.50% Sulfur																	
Refinery	۰;	0	۰ ;	٥	o	0	0 (o	o	0	-	0	0	9	*	8	22
Total	< F	0	C K	00	<u> </u>	0	-	0 6	0 0	0 0	y C\	0 0	00		0 1	00	72
No. 4 Enal Oil D E4 to 4 One/ Culture		•		,)	•	•	•	•	•	1	•	•	=	-	J	ŧ.
No. 4 Fuel Oil – 0.51 to 1.00% Suitur Refined	c	c	c	c	Ç	c	c	ç	ç	ć	ć	c	ţ	ě	(1	;
Bulk Terminal	682	0	682	0	. 8 28	0	9 0	28	g c	8 C	, c	, C	۰ و	367	00	g c	406
Total	682	0	682	0	47	0	0	4	8 8	229	• œ	. m	67	367	0	2 8	1,116
No. 4 Fuel Oil - 1.01 to 2.00% Suffur																	
Refinery	0	0	0	0	0	0	0	0	ις	0	0	0	0	Ŋ	0	4	C)
Bulk Terminal	£33 £33	o c	433 433	00	<i>۵</i> د	٥ د	0 0	00	0 4	00	00	0 0	00	O 4	0 0	36	469
		•	}	>	•)	>	•	n	>	>	>	>	D	>	₹	8/8
No.4 Fuel Oil - Greater Than 2.00% Sulfur		(•	,	•	•	•	•									
Bulk Terminal	o y	⊃ r	0 8	0 0	00	0 0	5	0	၀ မ	٥ (159	දු	0 (224	0 (6 6	243
Total	3 8	າຕ	88	ით	00	00	00	n on	25	> 6	159	95	> 0	276	00	၁ ပို	129 372
Besidual Enel Oil - 0.00 to 0.30% Suffir																	
Refinery	391	33	423	0	4	0	Ð	10	117	107	98	6	13	342	105	341	1.221
Bulk Terminal	5,704	٥٥	5,704	0	52	٥٠	0 (នូរ	0	0	2,016	, m	0	2,019	0	٥	7,748
HDO I	6,095	S	6,127	0	29	٥	ص	မ္	117	107	2,102	었	6	2,361	55	341	8,969
Residual Fuel Oil - 0.31 to 0.50% Sulfur	;																
Rulk Terminal	691 200	m c	2 694 2 694	0 0	105	0 0	<u>π</u> c	117	ω c	295	9 62	<u>ه</u> د	00	427	4	1,072	2,356
Total	3,491	ာက	3,494	00	196	00	5	208	တ	<u> </u>	ន្ទន	6	0	290	. Ą	1,072	3,054 5,410
Residual Fuel Oil - 0.51 to 1.00% Sulfur																	
Refinery	1,166	0	1,166	110	828	0	55	993	191	1,470	1,085	87	4	2,837	134	1,242	6,372
Bulk Teminal	7,920	183	8,103	8 6	643	= ;	46	780	106	393	105	0 6	٥,	98	٥	395	9,882
10kM semmerani	000'6	3	9,409) -	74.1	=	2	1.773	Ž.	200,	3	ò	4	, 1	45	1,63,	10,254
Residual Fuel Oil - 1.01 to 2.00% Sulfur	į	!	į	•					1		ļ	1					
	971	292	958	126	3 6	33	ğ į	800	g, c	200	675	<u> </u>	စ္က	1,366	¥ .	3,448	6,632
Total	4,463	419	4,882	136	962 963	30.5	515	1,814	29 0	1,185	788	,	- සූ	2,081	<u>, %</u>	4,197	13,028
Desides End All - Greater then 2 00% Suffer	44						Ð										
Refinery	1,170	0	1,170	0	588	157	17	762	37	3,056	2,225	104	0	5,422	174	551	8.079
重	11,341	88	11,427	0	177	75	152	\$	203	1,159	861	22	O	2.245	0	592	14,668
Total	12,511	88	12,597	0	765	232	169	1,166	240	4,215	3,086	126	0	7,667	174	1,143	22,747
Residual Fuel Oil - Suffur Content Not Specified	ecified																
Pipeline	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0	8	8
Total	0	0	0	0	۵	9	0	0	0	-	0	0	0	-	0	8	ន
Made Terral and the factor of the second state of	Supp. of the		andread Ma										Ì				

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 31. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, November 1982 (Thousands of Barrels)

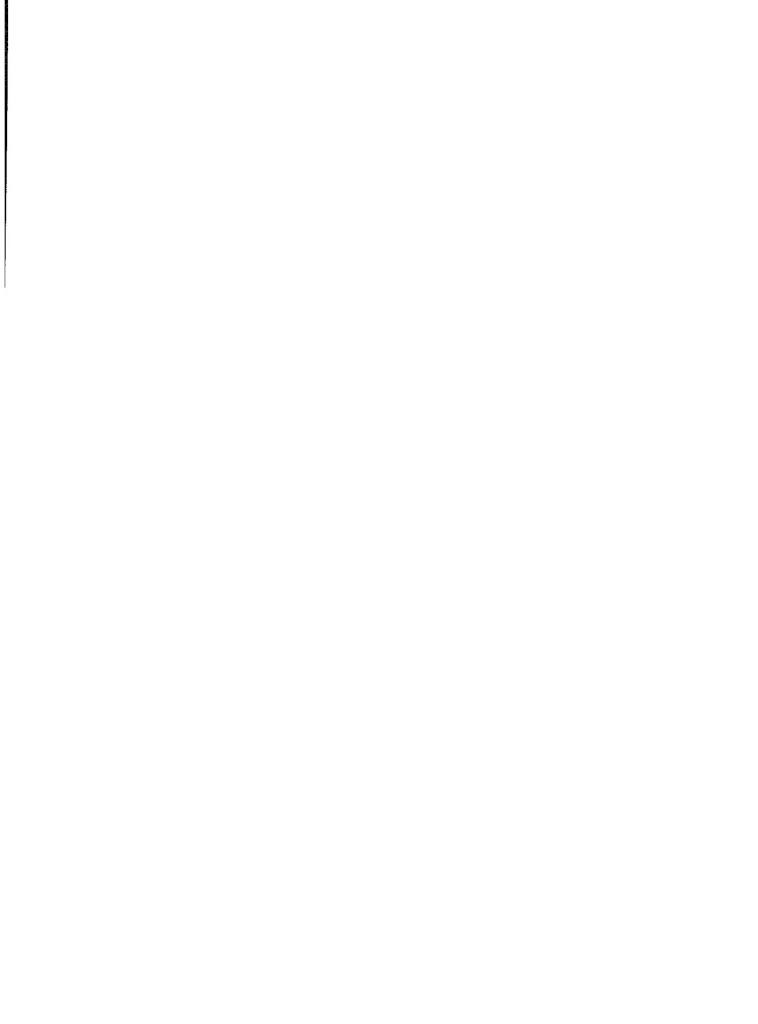
			Pe	Residual Fuel Oil	ā	!	
Country	0.00 to 0.30%	0.31 to 0.50%	0.51 to 1.00%	1 01 to 2.00%	Greater Than 2.00%	Not Specified	Total
Arab OPEC	2.505	•	_	, c	-		2 505
Iraq	0	0	o 0	0	0	0 0	000
Kuwart	0	0	0	0	0	o	0
Libya	216	<u> </u>	0	0	0	0	378
Catar Cart	0 (0 (0	0	0	0	0
Saudi Arabia	0 (0	0 (0 (0	0	0
Subtotal Arab OPEC	2,721	162	0	0	0	00	2,883
Other OPEC						•	1
Ecuador	0	0	0	189	0	0	189
Gabon	0	0	0	0	0	0	0
Indonesia	0	10	٥	23	0	O	8
fran	0	0	0	0	0	0	0
Nigeria	182	5 (0	9	0	٥	182
Subtotal Other OPEC	1,581	5	88	372	4,429	00	6,211
Other							
Angola	0	0 1	0	0	0	0	0
Australia	0 (0	0 1	.	9	0	0
paramas.	0 (5	0 (0 (g (0 (98
DOING	0 00	5 0	9	> 0	> 0	> c	2 0
Brazil	200	- c	, c	0 6	> C	-	, , , ,
Canada	156	· c	557	45	e e	o c	808
Eqvpt	0	0	0	٥	0	0	0
France	0	0	0	0	0	0	0
Ghana	0	150	٥	0	0	0	150
Liberia	0	0	0	0	0	0	0
Malaysta	0	0	0	0	0	0	0
Mexico	0 (0	0 0	0	0 0	0 0	9 0
Netherlands	-	o c	- L	- c	7 730	> c	2 6
Netnedands Andles	5	-	0.0	200	0	> c	4,090 A
Owner Comments	0	o c	-	0	o c	.	,
Popular Bonible of China	.	o c	, c	o c	0	o c	· c
Dog:	c		26.5	· c	220	• •	, 18
5	o c	· c	3	• •	3	> C	3
Soaio	c) C	c	· c	C	o C	• •
Trindad	•	· c	o C	404	0	· c	404
Timera		0	c	0	0	0	0
United Knadom	0	0	215	0	0	0	215
Viron Islands	452	905	1.563	343	225	0	3.785
Yuqoslavia	o	0	0	·0	0	٥	٥
Zaire	0	0	0	0	0	0	0
Other Western		•	1	i	(•	
Hemisphere	23	200	248	650	0 (0 (
Other Eastern Hemisphere	2504	, 68 67 67 67 67	4818	327	5.056	> c	15,897
	1			•)	
Total Imports	908'9	1,822	5,038	2,147	9,484	0	25,297

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 32. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, November 1982 (Thousands of Barrels)

			Re	Residual Fuel Oil	ρη		
State	0.00 to 0.30%	0.31 to 0.50%	0.51 to 1.00%	1.01 to 2 00%	Greater Than 2.00%	Not Specified	Total
PAN Nistrict 1	5.926	1.362	4,418	1,645	9,431	Đ	22,780
Connecticut	0	0	215	0	0	0	215
	•		27.5	48	1,604	0	1.868
Georgia	0	0	0	0	223	0	223
Mario	0	0	0	0	966	0	966
Maryland	0	0	846	8	364	0	1,239
setts	0	0	0	72	1,653	0	1,725
New Jersev	1.050	267	280	0	1,513	0	3,410
New York	4,458	575	2,281	812	1,207	0	9,333
	0	0	0	347	287	0	634
Pennsylvania	309	220	580	0	93	0	1,202
Bhode Island	0	0	0	189	166	0	355
South Camina	7	0	0	0	0	0	7
Virginia	102	0	0	146	1,324	0	1,573
PAD District II	115	0	319	14	93	0	514
Mobigan	C	O	274	0	0	٥	274
	2	· C	0	0	0	0	20
North Dakota	4	0	0	4	33	0	85
	8	0	45	0	0	0	105
DAD District III	746	500	304	404	4	0	1.666
TAD DISURCE III CONTRACTOR		-	220	404	14	0	9
Texas	744	200	8	0	0	0	1,026
PAD District IV	0	0	0	0	0	0	0
PAD District V	19	260	0	28	0	۵	337
Hawaii	N	260	٥	23	Φ	0	316
	C	C	0	4	0	o	4
ton	17	0	0	0	0	0	17
All PAD Districts	6,806	1,822	5,038	2,147	9,484	0	25,297

Note Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.





Glossary

Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrog and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon ph hydroxyl group, CH-(CH)n-OH. "Alcohol" includes ethanol and methanol.

Asphalt. A dark-brown-to-black cement-like material, containing bitumens as the predomin constituents, obtained by petroleum processing. The definition includes crude asphalt as well as following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), a petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor is 42-gallon barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will used for blending or compounding into finished aviation gasoline.

Aviation Gasoline (Finished). All special grades of gasoline for use in aviation reciprocating engir as given in ASTM Specification D 910 and Military Specification MIL-G-5572.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphiand wax to barrels are given in the definitions for these products.

Butane. A normally gaseous paraffinic hydrocarbon, C_4H_{10} . It is extracted from natural gas or refine gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Associati Specification for commercial butane.

- Normal Butane—A saturated straight-chain hydrocarbon of butane. It is a colorless paraffing gas that boils at a temperature of 31.1° F. This classification includes mixtures of gases the contain 80 percent or more normal butane.
- Other Butanes—All butanes not included as normal butane or isobutane.

Butane-Propane Mixtures. Mixtures consisting exclusively of butane and propane that conform ASTM Specification D1835 and Gas Processors Specification for commercial butane-propane. Th are extracted from natural gas and refinery gas streams.

Butylene. An olefinic hydrocarbon, C₄H₈, recovered from refinery processes. It is reported the "Butane" category.

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and a highly combustible. Includes lignite, bituminous coal, and anthracite which conform to AST Specification D 388.

Crude Oil (including Lease Condensate). A mixture of hydrocarbons that existed in liquid phase underground reservoirs and remains liquid at atmospheric pressure after passing through surfa separating facilities. Lease condensate is included. Drips are also included, but topped crude (residual oil and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixtured oil are likewise excluded where identifiable. Crude oil is considered as either domestic foreign, according to the following:

- Domestic—Crude oil produced in the United States or from its outer continental shelf as define in 43 U.S.C. 1331. Hydrocarbons such as shale oil and tar sand oil are included.
- Foreign—Crude oil produced outside the United States. Imported Athabasca hydrocarbons a included.

Including ramoad engine rue and ruel for agricultural machinery), and electric power generation Included are products known as No. 1 and No. 2 heating oils, No. 1 and No. 2 diesel fuel oils, and No. 4 fuel oil.

- No. 1 Fuel Oil—A light distillate fuel oil intended for vaporizing pot-type burners. ASTM Specification D 396 specifies for this grade maximum distillation temperatures of 400° F. at the 10-percent point and 550° F. at the 90-percent point, and kinematic viscosities between 1.4 and 22 centistokes at 100° F.
- No. 2 Fuel Oil—A distillate fuel oil for domestic heating for use in atomizing-type burners or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade temperatures at the 90-percent point between 540° and 640° F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100° F.
- No. 1 and No. 2 Diesel Fuel Oils—Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D 975:
 - 1. No. 1-D—A volatile distillate fuel oil in the 400° to 550° F. boiling range for engines in service requiring frequent speed and load changes. Type C-B diesel fuel, which is used for city buses and similar operations, is included.
 - 2. No. 2-D—A distillate fuel oil of lower volatility in the 540° to 640° F. boiling range for engines in industrial and heavy mobile service. Type R-R diesel fuel for railroad compression-ignition engines and Type T-T for diesel-engine trucks are included.
- No. 4 Fuel Oil—A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100° F. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D 975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa, and Australia. The Hawaiian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous paraffinic hydrocarbon, C_2H_6 , extracted from natural gas and refinery gas streams. "Ethane" includes any product containing 90 percent liquid volume or more ethane.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume. It is extracted for natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, C₂H₄, recovered from refinery and petrochemical processes. It is reported in the "Ethane" category.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Gas Well Gas. Natural gas produced from gas wells. Such gas may be either associated gas or non-associated gas.

- Associated Gas—Free natural gas in immediate contact, but not in solution, with crude oil in the reservoir.
- Non-Associated Gas-Free natural gas not in contact with, nor dissolved in, crude oil in the reservoir.

Imported Crude Oil Burned as Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. "Imported crude oil burned as fuel" includes lease condensate and liquid hydrocarbons produced from tar sand oil, gilsonite, and oil shale.

Isobutane. A saturated branch-chain isomer of butane. It is a colorless paraffinic gas that be temperature of 10.9° F. This classification includes mixtures of gases that contain 80 percent volume or more isobutane. It is extracted from natural gas and refinery gas streams.

Isopentane. A saturated branch-chain hydrocarbon, C₅H₁₂, obtained by fractionation of 1 gasoline or isomerization of normal pentane.

Kerosene. A petroleum distillate that boils at a temperature between 300° and 550° F., that has point higher than 100° F. by ASTM Method D 56, that has a gravity range from 40° to 46° API, a has a burning point in the range of 150° to 175° F. It is a clean-burning product suitable for us illuminant when burned in wick lamps. Includes grades of kerosene called range oil having pro similar to No. 1 fuel oil, but with a gravity of about 43° API and having a maximum end-point of Kerosene is used in space heaters, cook stoves, and water heaters.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7° API percent distillation temperature of 400° F., and an end-point of 572° F. It is covered by . Specification D 1655 and Military Specification MIL-T-5624L (Grade JP-5 and JP-8). It is primarily for commercial turbojet and turbojet are turbojet and turbojet.

Lease Condensate. A natural gas liquid recovered from gas well gas (associated and non-associa lease separators or natural gas field facilities. Lease condensate consists primarily of pentanheavier hydrocarbons.

Lease Separator. A surface facility used for separating casinghead gas from produced crude c water and separating gas from that portion of associated gas and non-associated gas that liquefies temperature and pressure conditions of the separator.

Liquefied Petroleum Gases (LPG). Propane, propylene, butanes, butylene, ethane-propane mix and isobutane produced at refineries or natural gas processing plants, including plants that fract raw natural gas plant liquids. Formerly called "Liquefied Gases."

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still; Through compression and/or refrigeration they are retained in the liquid state. The reported categore ethane and/or ethylene, propane and/or propylene, butane and/or butylene, butane-promixtures, and isobutane. Excludes still gases used for chemical or rubber manufacture which reported as petrochemical feedstocks and also excludes liquefied gases ready for blending into gas which are reported as gasoline blending components. Liquefied refinery gases are reported for a petrochemical feedstocks, other uses, or both.

Lubricants. A substance used to reduce friction between bearing surfaces. Petroleum lubricants be produced either from distillates or residues. Other substances may be added to impart or impertain required properties. "Lubricants" includes all grades of lubricating oils from spindle cylinder oil and those used in greases. The three categories reported are:

- Bright Stock—A refined, high viscosity lubricating oil base stock that is usually made fr residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.
- Neutral—A distillate lubricating oil base stock with a viscosity that is usually not above Saybolt Universal Seconds (SUS) at 100° F. It is prepared by a treatment such as hydrofin acid treatment, or solvent extraction.
- Other—A lubricating oil base stock used in finished lubricating oils and greases, inclublack, coastal, and red oils.

Miscellaneous Products. Includes all finished products not classified elsewhere. "Miscellan products" include petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic nat gas feedstocks, and other finished products.

Motor Gasoline Blending Components. Finished components in the gasoline range that will be for blending or compounding into finished motor gasoline. Pool gasoline is included in this categor.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons, with or with small quantities of additives, that have been blended to form a fuel suitable for use in spark-igni

engines. Specifications for motor gasoline, as given in ASTM Specification D 439 or Federal Specification VV-G-1690B, include a boiling range of 122° to 158° F. at the 10-percent point to 365° to 374° F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. "Motor gasoline" includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

- Finished Leaded Gasoline—Contains more than 0.05 grams of lead per gallon or more than 0.005 grams of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premium and regular grades are included, depending on the octane rating.
- Finished Unleaded Gasoline—Contains up to 0.05 grams of lead per gallon and 0.005 grams of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating.
- Gasohol—A blend of alcohol and finished motor gasoline that is no more than 90 percent of finished motor gasoline (leaded or unleaded as described above) and no less than 10 percent or more alcohol (ethanol or methanol).

Motor Gasoline (Total). Includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of 52.8° API and 20 to 90 percent distillation temperatures of 290° to 470° F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. This category excludes ram-jet and petroleum rocket fuels, which are included in the "Miscellaneous Products" category.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials, and are classified as follows: Ethane, propane, ethane-propane mix, isobutane, butane, butane-propane mix, isopentane, natural gasoline, plant condensate, unfractionated stream, and other products from natural gas processing plants (i.e., products meeting the standards of finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Processing Plant. A facility designed to recover natural gas liquids from a stream of natural gas that may or may not have been processed through lease separators or natural gas field facilities. The facility also controls the quality of natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Producers Association.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and-exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Distillation Capacity. The maximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and

grades of inputs, limitations of downstream facilities, scheduled and unscheduled downtimes environmental constraints. Includes any shutdown capacity that could be placed in operation with days.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Inc hydrogen, coal, tar derivatives, gilsonite, and natural gas received by the refinery for reforming hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum, principally for the n facture of synthetic rubber and a variety of plastics. The categories reported are "Naphtha-less 400° F. end-point" and "Other oils over 400° F. end-point."

- Naphtha less than 400° F. end-point—A naphtha with an end point of less than 400° F, and the reported as used as a petrochemical feedstock.
- Other oils over 400° F. end-point—Oils with an end point over 400° F. and that are report used as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This produce reported as marketable coke or catalyst coke. The conversion factor is 5 42-gallon barrels per short

- Marketable Coke—Those grades of coke that are produced in delayed or fluid cokers and w may be recovered as relatively pure carbon. This "green" coke may be sold or further purific calcining.
- Catalyst Coke—In many catalytic operations (i.e., catalytic cracking) carbon is deposited or catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the car which is used as fuel in the refinery process. This carbon or coke is not recoverable concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (include lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products inclunfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, eth liquefied petroleum gases, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400° F. end-point, other oils-c 400° F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, miscellaneous products.

Petroleum Refinery. An installation that manufactures finished petroleum products from crude unfinished oils, natural gas plant liquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas plant liquids, mostly pentanes and heavier hydrocarbo recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) leases, refiner natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,0 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeli Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleu Reserve is included. "Primary Stocks" excludes stocks of foreign origin that are held in bonc warehouse storage.

Propane. A normally gaseous hydrocarbon. C_3H_8 extracted from natural gas and refinery gasstrear It is used primarily as a fuel and as a petrochemical feedstock. Propane is covered by ASI Specification D1835, Gas Processors Association for commercial and HD-5 propane, and ASI Specification for special duty propane.

Propylene. An olefinic hydrocarbon, C₃H₆, recovered from refinery and petrochemical processes. It reported in the "Propane" category.

Residual Fuel Oil. Topped crude of refinery operations. "Residual Fuel Oil" includes No. 5 and No fuel oils as defined in ASTM Specification D 396 and Federal Specification VV-F-815C; Navy Specifuel oil as defined in Military Specification MIL-F-859E including Amendment 2; Bunker C fuel o Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, at various industrial purposes. Imports of residual fuel oil include "Imported Crude Oil Burned as Fuel

Road Oil. Any heavy petroleum oil, including residual asphaltic oils, used as a dust palliative and surface treatment of roads and highways. It is generally produced in six grades; from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, and solvents. These products are refined to a specified flash point and have a boiling range of 90° to 220° F. "Special naphthas" includes all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D 484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam that is purchased for use by a refinery that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, but ane, but ylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and refinery fuel use.

- Petrochemical Feedstock Use—Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadiene, etc. are considered petrochemical products; therefore, only their feedstock equivalents are included.
- Fuel Use-All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending.

Unfractionated Stream. Mixtures of unsegregated natural gas plant liquid components excluding those included in plant condensate. This product is extracted from natural gas.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is a light-colored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades reported are microcrystalline, crystalline—fully refined, and crystalline—other. The conversion factor is 280 pounds per 42-gallon barrel.

• Microcrystalline Wax—Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77° F. (D-1321)—60 maximum. Viscosity at 210° F. in Saybolt Universal Seconds (SUS) (D-88)—60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D-721)—5 percent minimum.

• Crystalline-Fully Refined Wax—A light-colored paraffin wax having the following characteristics:

Viscosity at 210° F.
(D-88)—59.9 SUS (10.18 centistokes) maximum.
Oil Content (D-721)—0.5 percent maximum.
Other +20 color, Saybolt minimum.

Crystalline-Other Wax—A paraffin wax having the following characteristics:
 Viscosity at 210° F. (D-88)—59.9 SUS (10.18 centistokes) maximum.
 Oil Content (D-721)—0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and the surrounding waters.

Bureau of Mines Petroleum Refining Districts and PAD Districts

PAD District

Refining District

East Coast—District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian #1—The State of West Virginia, those parts of the States of Pennsylvania and New York not included in the East Coast District.

Appalachian #2-The following counties of the State of Ohio: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

Indiana—Illinois—Kentucky—The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not included in the Appalachian District.

Minnesota-Wisconsin-North and South Dakota-The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri-The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

Texas Inland—The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast—The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast—The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas—The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico-The State of New Mexico.

Rocky Mountain-The States of Montana, Idaho, Wyoming, Utah, and Colorado.

West Coast-The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

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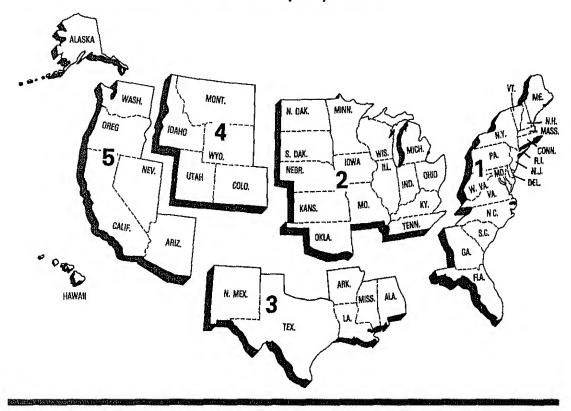
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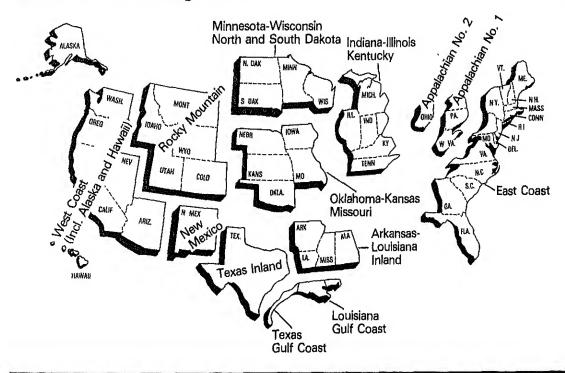
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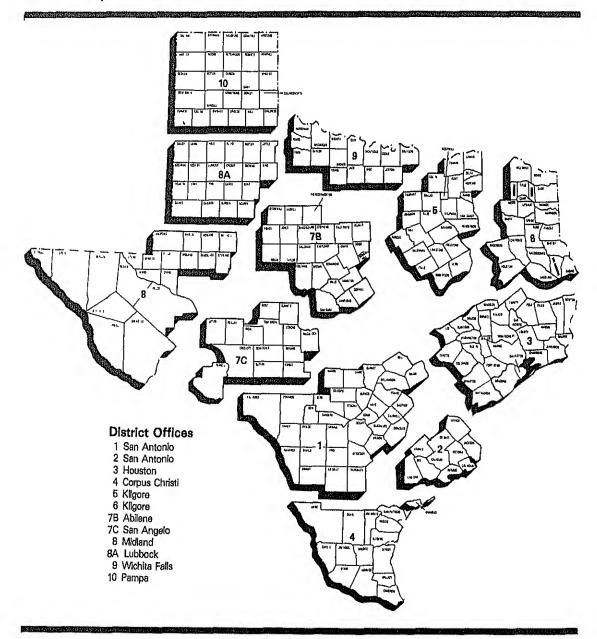
Petroleum Administration for Defense (PAD) Districts



Bureau of Mines Refining Districts



District Map Oil and Gas Division Railroad Commission of Texas



Explanatory Notes

Explanatory Notes

Note 1.1 EIA-64: Natural Gas Liquids Operations Report

Background

The EIA-64, "Natural Gas Liquids Operations Report" evolved from a survey designed and conduction by the United States Geological Survey beginning in 1911. This form collects data on the production storage of natural gas plant liquids at natural gas processing plants and fractionators.

Description of Survey

Universe

The universe includes all operators of facilities designed to: (1) extract liquid hydrocarbons fr natural gas streams (natural gas processing plants); (2) separate a combined products liquid hydrocarbon stream into its component products, i.e. propane, butane, natural gasoline, etc. (fraction tors); or (3) store the liquid hydrocarbon output of plants and fractionators.

The mailing list is automated. It is maintained by matching periodically with the *LP Gas Alman* listings (including supplements) and the *Oil and Gas Journal* Processing Plant Survey listings, and making changes reported by the respondents.

Information Collected

The data are submitted monthly by facility and include all products that the company controls throu; possession, regardless of ownership. The main items of information collected by the EIA-64 are shown by the example of the form presented below.

Collection Methods

Completed reports are required to be postmarked 20 days following the last day of the report mont Follow-up telephone calls are made to nonrespondents in order to collect data before publication of the aggregated data.

Imputing Missing Data

Imputation is performed only for companies that submitted a report in the previous month. For suc companies, previous monthly values are used for current values. The previous month's ending stock value is used for both the current month's beginning stocks and the current month's ending stocks. The value of shipments is adjusted to balance stock level, production, receipts, plant fuel use, and losses. It the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by a resubmission of actual data.

Response Rates

The initial response rate averages 85 percent, with a final response averaging 98 percent as a result celephone follow-up procedures.

Data Processing

Upon receipt, the reports are reviewed for identification section omissions, duplicate submissions, and identification information changes. The data are then entered and edited. The edit program include checks for invalid data entry codes, range checks for current-month to previous-month change (absolute and relative), arithmetic calculation errors, line balancing errors, etc. Telephone calls are made to respondents to resolve questions.

Note 1.2 EIA-87, 88, 89 and 90: Joint Petroleum Reporting System

Background

The Joint Petroleum Reporting System (JPRS) comprises four surveys: the "Refinery Report" (EIA-87); the "Bulk Terminal Stocks Report" (EIA-88); the "Pipeline Products Report" (EIA-89); and the

Stocks End of Month Form Approved OMB No 1905-0109 ŝ Losses Ē For DOE Use Only Plant Fuel Use ŝ Other E Report Date (Last Day of Reporting Month) If Resubmission Insert X in Block Report Type Zip Code of Plant Location Chemical Plant EiA Company Identification Number Plant Name Ē Shipments To Refinery <u>(6</u> Storage Facility (f) Fraction 30ng Facility let Section 1 Natural Gas Processing Plant and Fractionator Operations (Barrels of 42 Gallons) Production During Month ĝ This Report is Mandatory Unider Public Law 33 275. Falure to Compty may Result in Criminal Finas. Civil Penalties and Other Sarctions as Provided by Law. Inputs During Month Û Natural Gas Liquids Operations Report U.S. Department of Energy Energy Information Administration Mail Statiop, 8G-086 Forsti Washington, D.C. 20585 Receipts During Month 9 Stocks Beginning of Month ê Jef Fuel Naphtha Type Kerosene Type Kerosene Disultate Fuel Oil Other Products (Specify) Ethane Propane Ethane Propané Mix Sobusane Normal Butane Other Butanes Butane-Propane Mix Natural Gasoline
144 and Less RVP
Over 144 RVP
Plant Condensate
Barticonated Stream
Gasoline
Finished Aviation
Finished Leaded
Gasoline
Simple Unleaded
Gasoline
Sasoline
Sasoline
Sasoline
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Sasoline Overage (Inputs) or Shortage (Production) Products EIA-64

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"Crude Oil Stocks Report" (EIA-90). This group of forms collects data on petroleum refinery operation and on storage of crude oil and petroleum products. The origins of JPRS lie in the voluntary petroleum reporting systems instituted by the Bureau of Mines (BOM) soon after it was established as a part of the Department of the Interior in May 1910.

Description of Survey

Universe

The respondent universe of each JPRS survey is defined as follows:

EIA-87: All petroleum refineries and plants producing finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Hawaiian Foreign Trade Zone, and Guam.

EIA-88: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin Islands that (a) have total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline regardless of ownership of the material.

EIA-89: All products pipeline companies that carry petroleum products (including interstate intrastate and intracompany pipelines) in the 50 States and the District of Columbia.

EIA-90: Crude oil pipeline companies (gathering and trunk pipeline companies), crude oil producers terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water (in excess of 1,000 barrels), regardless of ownership in the 50 States and the District of Columbia.

The list of respondents is kept current by checking for new respondents in the Oil and Gas Journal weekly magazine; newspaper articles; the Office of Resource Applications publication "Trends in Refinery Capacity & Utilization;" the Office of Refinery Operations (ERA) list of U.S. Refiners; and the annual survey EIA-177 "Capacity of Petroleum Refineries."

Information Collected

The main items of information collected by EIA-87, are shown by the example presented below. The EIA-88 and EIA-89 collect data on petroleum product stocks. The EIA-90 collects data on crude oil stocks and crude oil used directly as fuel.

Collection Methods

The data for the JPRS surveys are collected on a monthly basis. Completed forms are required to be postmarked by the 20th day following the report month. Telephone follow-up calls are made to nonrespondents in order to collect data before publication deadline. An automated mailing list is maintained and is used to monitor receipt of the forms.

Imputing Missing Data

Imputation is performed only for companies that submitted a report in the previous month. For these companies, the previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. The value of shipments is adjusted to balance stock level, production receipts, and losses. In the event that previous month's data were estimated, the respondent is contacted and requested to submit estimates if necessary, to be followed by a resubmission of actual data.

Response Rates

As of the filing deadline, the response rate of the JPRS respondents is over 90 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Thirty calendar days after the report month, data for companies that still fail to file the form are estimated based on prior month's data. Names of companies that fail to file for two consecutive months are forwarded to DOE for further noncompliance action. Final response rate is 100 percent.

Report Type	B 0 1	EIA Company Identification No.	Report Period			
				Yr	Mo.	

ITEM DESCRIPTION	PRO UCT COD	STOCKS BEGINNING OF MONTH	RECEPTS DURING MONTH	MPUTS DURING MONTH	PRODUCTION DURING MONTH	SHIPMENTS OURING WONTH	REINERY FUEL USE AND LOSSES DURING MONTH	STOCKS HID OF MONTH
Crude all (inc) lesse condensate) Total (sum of codes 010 and 020)	050				х	1		
Domestic (incl. Alaskan)	010	W.X.		X	X	X		7
Foreign Alaskan	020	X	-	- X	- X	- X	X	_ X ,
Products of natural gas prociplants Ethane	110				×			_ _
Propane	231				X			
Ethane-propane mixtures	241	.			X	}	ļ	
Normal butane	233 235		 		\ <u>X</u>		ļ	
Other butanes	235	 	 		X		}	
Butane propage mixtures	234		 		Î		 	
Natural gesoline and isopentane	220				X			
Plant condensate	210				X			
Unfractionaled stream	227				X			
Other hydrocarbons and hydrogen	090				X			
Atcohol tiplinghed site	091	ļ	 		X			
Unfinished oils	B12	 	 		 -	ļ 	 	
Gasoline Finished leaded motor	132	ļ			<u> </u>	l		
Finished unleaded inotor Blending components motor	133		 -		 			
Gasohol	135	 	 	1				
Finished aviation	111							
Blending components aviation Special naphtnas (solvents)	112		 	 	ļ			
Jet fuel Naphtha type	211			 				
Kerosene type	213			- 	 			
Kerosene (incl range oil)	311					<u> </u>		
Distribute fuel all Less No. 4	412							
No 4 fuel oil	414	ļ	<u> </u>					
Residue) fuel oil Lubricating alls Bright stock	853							
Neutral	855		 	 				
Other	859							
Asphali	900							
Wax Microcrystalline			1	1	1 1	}		
Crystalline fully refined	061			 	 			
Crystalline other	081		 					
Petroleum coke Marketable	021							
Catalyst	022	美国教育						7.
Road all	031	1 1 1 P		} _	ļ			
Still gas Petrochemical feedstock use	042							學人事
Other use	044	X						
Ethane and/or ethylens				}				
Petrochemical feedstock use	612			 				
Other use	652			 				
Propane and/or propylene Petrochemical feedstock use	613			j j	J	•	j	
Other use	653							
Butane end/or butylene Petrochemical (sedatock use	614							
Other use	654			f				
lutane-propane mixtures Petrochemical feedstock use Other use	618 656							
sobutane petrochemical feedstock use	615			 				
laphtha – less than 400° and point Petrochamical feedstock use	B22							
other oils—aver 400° and point Petrochemical (sedstock use	824							
Pther finished products Nan fuel use	097							
Fuel Use	098	27.0						
erage (Inputs) or shortage (production)	911						- X	. A 42

Note 1.3 EIA-161, 162, 163, 164 and 165: Weekly Petroleum Reporting System

Background

The Weekly Petroleum Reporting System (WPRS) comprises five surveys: the "Refinery Report" (EIA-161); the "Bulk Terminal Stocks Report" (EIA-162); the "Pipeline Product Stock Report" (EIA-163); the "Crude Oil Stocks Report" (EIA-164); and the "Imports Report" (EIA-165).

The EIA weekly reporting system was designed to collect data similar to those collected under the monthly Joint Petroleum Reporting System(JPRS) (See Note 1.2). In the WPRS, selected petroleum companies report weekly data to EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On the Forms EIA-161 through EIA-164, companies report data on a custody basis. On the Form EIA-165, the importer of record reports each shipment entering the United States. Current weekly data and the most recent monthly data from the JPRS are used to estimate the published weekly totals.

Description of Survey

Universe

The sample of companies that report weekly in the WPRS was selected from the universe of companies that report monthly in either the JPRS system or the ERA-60 system (for imports). All sampled companies report data only for facilities in the 50 States and the District of Columbia.

The sampling frame for each weekly survey is defined as follows:

EIA-161: Uses the EIA-87 universe, which includes all petroleum refineries in the United States and its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and bulk terminals that blend motor gasoline.

EIA-162: Uses the EIA-88 universe, which includes all bulk terminal facilities in the Uited States and its territories that have total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline.

EIA-163: Based on the EIA-89 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that only transport natural gas liquids are not included in the EIA-163 frame. Only those pipeline companies which transport products covered in the weekly survey are included.

EIA-164: Uses the EIA-90 universe, which consists of all trunk pipeline companies in the United States and its territories which transport crude oil, all refining companies, all crude oil producers, all terminal operators, and all storers of 1,000 barrels or more of crude oil.

EIA-165: Uses the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico.

Sampling

The sampling procedure used for the weekly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total for the previous time period.

Collection Methods

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. All canvassed firms and terminal operating companies must file by 5:00 p.m. on the Monday following the close of the report period, 7 a.m. Friday. During the processing week, company corrections of the prior week's data are also entered.

Formula and Calculations

After the company reports have been checked and entered into the weekly data base, ratio estimates of the weekly totals are calculated from the reported data.

First, the current week's data for a given product reported by companies in that region are summed. (Call this weekly sum, W_s) Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum, M_s). Finally, let M_t be the sum of the most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies is given by.

$$W_t = \frac{M_t}{M_s} \circ W_s$$

This procedure is used directly to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a company-by-company basis or a week-by-week basis. Under such conditions, the ratio method is known to result in large errors. Hence, a number of other procedures for estimating weekly imports were considered. The average ratio method was selected for estimating imports because it produces estimates that were close to benchmark values computed from monthly data. Estimates are obtained using the ratio method, but with each company in turn omitted from the sample. These estimates are then averaged to obtain the average ratio estimate.

Imputing Missing Data

The ratio method of estimation automatically imputes for nonresponse. Data from companies that do not respond are excluded from both the weekly and the monthly totals for the sampled companies.

Response Rates

The response rate as of the day after the filing deadline is about 80 percent for the EIA-161; 75 percent for the EIA-162; 95 percent for the EIA-163; 80 percent for the EIA-164; and greater than 95 percent for the EIA-165. However, more forms are received the next day, bringing the final response rates up. Late respondents are contacted by telephone. Nearly all of the major companies report on time. The nonresponse rate for the published estimates is usually between 2 percent and 5 percent.

Note 1.4 EIA-170: Tanker and Barge Shipments of Crude Oil and Petroleum Products Between Districts

Background

The EIA-170 survey collects data for calculation of monthly petroleum supply and disposition figures on U.S. and PAD District levels.

Instrument and Design

This form is designed to collect data on total movements by tanker and barge of crude oil and petroleum products between PAD Districts or between PAD Districts and the Panama Canal, by shipping State and receiving State.

Universe

The respondent universe of the EIA-170 consists of all known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are currently about 60 respondents.

Collection Methods

Survey data are collected by mail every month. The filing deadline is the 20th calendar day of the month following the report period. The response rate as of the filing deadline is about 98 percent. Late respondents are contacted by telephone. All responses are processed each month before release of the data for publication.

Note 1.5 ERA-60: Reports of Oil Imports into the United States and Puerto Rico

Background

The "Report of Oil Imports into the United States and Puerto Rico" (ERA-60) survey was designed by the Economic Regulatory Administration (ERA) of the Department of Energy to collect data on port of entry, country of origin, destination, and quantity of imported crude oil and petroleum products, as well as sulfur content and API gravity. All licensed importers and importers of record are required to report. The "Shipments of Refined Products from Puerto Rico to the United States" (P-133-M-O) survey was designed to collect data on imports to the United States that are not covered by the ERA-60.

Universe

The monthly submission of Form ERA-60 and P-133-M-0 is required by all licensed importers and importers of record into the United States and Puerto Rico. The respondent universe consisted of approximately 750 firms as of June 30, 1981. The respondent universe for these surveys is updated whenever an import license is granted by the Office of Oil Imports of the ERA.

Collection Methods

The survey data are collected by mail each month. It is mandatory for each respondent to file the ERA-60/P-133-M-O by the 15th working day of the month following the reporting period. Resubmissions are received frequently and are processed when received.

Response Rates

In December 1980, the survey had a response rate of 92 percent by the filing deadline. The universe was 640 at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard followup of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. Response rate is generally 98-99% by the time the data are first published. Revised publications are not generated as standard operating procedure. The ERA-60 file is never closed; resubmissions are constantly received and processed.

Note 1.6 Census Import (IM-145) and Export (EM-522 and EM-594) Tabulations

The foreign trade statistics program, conducted by the Bureau of the Census, involves compilation and dissemination of a large body of data relating to the imports and exports of the United States.

Import Statistics

Coverage

The import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (includes the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- 1. Merchandise shipped in transit through the United States, when documented with Customs as an intransit movement.
- 2. Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions; shipments between any of these outlying areas; and imports into U.S. possessions from foreign countries.
- 3. U.S. merchandise returned by U.S. Armed Forces for their own use.

Source of Import Information

The official U.S. import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501–7505).

Imported petroleum is reported as "Imports for Consumption." Imports for consumption are a combination of entries for immediate consumption and withdrawals from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

Export Statistics

Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (includes the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions; between any of these outlying areas; and shipments from U.S. Possessions to foreign countries.
- 2. Merchandisc shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 3. Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Shipper's Export Declarations are required to be filed with Customs officials, except when qualified exporters have been authorized to submit data in the form of magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations directly to the Bureau of the Census.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 2 Estimation

The geographic coverage of all estimates is the 50 United States and the District of Columbia, including adjacent areas of the outer continental shelf, excluding the Hawaiian Foreign Trade Zone.

Note 2.1 Supply

The components of petroleum supply are field production, refinery production, imports, stock withdrawal or addition, crude oil used directly, and losses.

Field Production is the sum of crude oil (including lease condensate) production, natural gas processing plant production, and new supply (field production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. Reports of crude oil production from each of the 31 producing States are not received until several months after the other components of petroleum supply described in Explanatory Note 2.1 are available for publication. For an explanation of the crude oil estimation procedure used until the State reports are complete, see Explanatory Note 2.2.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-64, "Natural Gas Liquids Operation Report." Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.1.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-64, "Natural Gas Liquids Operations Report." Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.1.

Refinery Production of LRGs, ethane, and finished petroleum products is reported monthly on survey Form EIA-87, "Refinery Report." Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

Refinery production is also reported weekly on survey Form EIA-161, "Refinery Report." See Explanatory Notes 1.2 and 1.3 for survey descriptions and other detail. It should also be noted that refineries do not report production of crude oil, natural gasoline, isopentane, unfractionated stream, plant condensate, or other hydrocarbons and alcohol.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, "Report of Oil Imports into the United States and Puerto Rico," and Form P-133-M-O, "Shipments of Refined Products (including unfinished oils) from Puerto Rico to the United States." In addition, the Census Bureau Tabulation IM-145 summarizes import data from Customs import declarations reported on Customs Forms 7501 and 7505. The most prominent difference between the EIA and Census systems appears in imports of liquefied petroleum gases (LPG), where Census data show a much higher level of imports than Energy Information Administration data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and because LPGs are not licensed products. Therefore, respondents that only import LPGs have not been identified, and do not report these imports to the Department of Energy. Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphtha and kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting system.

Imports are also reported weekly on survey Form EIA-165, "Imports Report." See Explanatory Notes 1.3, 1.5, and 1.6 for survey descriptions and other detail.

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month from stocks at the beginning of the month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and reduce petroleum supplies distributed for domestic consumption. For survey forms used to make stock withdrawal or addition calculations see Explanatory Note 2.4.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition. Crude oil supply is the sum of field production, imports and stock withdrawal or addition, less crude used directly and losses. Crude oil disposition is the sum of exports and refinery input.

Unaccounted-for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A negative result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used. This calculation is performed for crude oil to ensure that product supplied for crude oil is always zero.

Crude Oil Used Directly and Losses is the sum of crude oil losses at refineries, crude oil burned at refineries, and crude oil burned on leases. Crude oil losses and consumption at refineries are reported on Form EIA-87, "Refinery Report." Crude oil burned on leases is reported on Form EIA-90, "Crude Oil Stocks Report." Crude oil burned on leases is divided into two categories: crude burned as residual fuel oil and crude burned as distillate fuel oil. Crude burned on leases appears as a negative supply to crude oil (a reduction in crude oil supplies) and as a positive supply to residual and distillate fuel oil (an increase to these supplies).

Note 2.2: Domestic Crude Oil Production

Data for the Crude Oil Production System (COPS) are reported to the Department of Energy by each of the individual State conservation agencies, which collecterude oil production values for tax purposes. In addition, the U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of six State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports from the State conservation agencies and the U.S. Geological Survey. The six States that do not report monthly values are Indiana, New York, Ohio, Pennsylvania, West Virginia, and Wyoming Monthly values are estimated for these States using the individual linear trends of their historica annual crude oil production values.

There is a time lag of approximately 3 to 4 months between the end of the reporting month and the time when the actual values are available for this publication. In order to provide more timely crude oil production estimates, the Department of Energy has established a series of statistical models that forecast the volume of crude oil production based on the historical production patterns. The models use Auto Regressive Integrated Moving Average (ARIMA) to analyze series of monthly crude oil production values collected over several years.

In order to provide detailed crude oil production information on both the PAD District level and for the major producing States, the total United States crude oil production volume was separated into nine distinct groupings. The nine different time series are the monthly reported crude oil production volumes for: (1) all the States in PAD District 1; (2) all the states in PAD District 2; (3) Texas; (4) Louisiana; (5) the States in PAD District 3 excluding Texas and Louisiana; (6) all the States in PAD District 4; (7) Alaska; (8) California; and (9) the States in PAD District 5 excluding Alaska and California. Monthly data collected beginning in January 1973 are used for each of these time series.

A separate ARIMA model is identified for each time series. New model parameters are estimated monthly for each of these nine updated time series. Then, these ARIMA models are used to forecast crude oil production volumes for the month of interest. These values are then aggregated into PAD District and national totals. The forecasts made during 1981 had an average error of less than 0.6 percent compared to the monthly crude oil production volumes eventually reported by the States.

Note 2.3 Disposition

The components of petroleum disposition are refinery input, exports, and products supplied for domestic consumption.

Refinery Inputs of crude oil, NGPL and other liquids are reported monthly on survey Form EIA-87, "Refinery Report." Published inputs of unfinished oils, and motor and aviation gasoline blending components, equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production. Refinery inputs are also reported weekly on survey Form EIA-161, "Refinery Report." See Explanatory Notes 1.2 and 1.3 for survey description and other details.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM522 and EM594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawaiian Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-87.

Product supplied for each product is calculated by summing field production plus refinery production, plus imports, plus stock withdrawal or minus stock addition, plus crude oil used directly and losses (plus net receipts when calculated on a PAD District basis), minus refinery input, minus exports. This formula ensures that total disposition equals total supply. Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative when total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) misreporting or delayed reporting of data, and (3) for calculations on a PAD District basis, incomplete coverage of interdistrict movements data compiled to calculate net receipts.

Note 2.4 Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-87, "Refinery Report," and Form EIA-90, "Crude Oil Stocks Report." Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form 161, "Refinery Report," and Form EIA-164, "Crude Oil Stocks Report." Primary stocks of petroleum products are summed from data reported on the Form EIA-64, "Natural Gas Liquids Operations Report," Form EIA-87, "Refinery Report," Form EIA-88, "Bulk Terminal Stocks Report," and Form EIA-89, "Pipeline Products Stocks Report." Primary stocks of petroleum products do not include secondary stocks held by dealers and jobbers, or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-161, "Refinery Report," Form EIA-162, "Bulk Terminal Stocks Report," and Form EIA-163, "Pipeline Products Stocks Report." For survey descriptions and other details see Explanatory Notes 1.1., 1.2, and 1.3.

Note 2.5 Average Stock Levels

The graphs displaying monthly stock levels of petroleum products, crude oil, motor gasoline, distillate fuel oil, residual fuel oil, liquified petroleum gases and ethane, and other products provide the user with recent data as well as a summary of data from the most recent 3 year period from January through December or from July through June. This summary takes the form of an "average range" that includes seasonal variation determined from a longer time period. The average range represents the historical pattern; it is not a forecast.

These curves are updated every 6 months effective January 1 or July 1 by basing the "average ranges" on a more recent time period. At that time, each 3-year data series will be adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors were estimated by means of a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors were assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels). The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks, the derived seasonal factors were very small relative to crude oil stock levels. Therefore, the seasonal factors for crude oil stock levels were set to zero. The seasonal factors for total petroleum (crude and products), distillate fuel oil, residual fuel oil, liquefied petroleum gases and ethane, and other products were derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors were based on monthly data from 1975, 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973 and 1974 appeared to be different from those in recent years. It was therefore assumed that the seasonal patterns in 1973, 1974, and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the illustrated seasonal patterns for total petroleum (crude and products), crude oil, distillate fuel oil, residual fuel oil, liquefied petroleum gases and ethane, and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3 year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the "average range" is twice this standard error.

The upper curve of the "average range" is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

Note 2.6 Movements

Movements of crude oil between PAD Districts are reported on Form EIA-170, "Tanker and Barge Report." Petroleum product movements are reported on Forms EIA-170 and EIA-89, "Pipeline Products Report." Net receipts are calculated by summing total movements into and total movements from each PAD District by pipelines, tankers, and barges, and subtracting for the difference. Movements of crude oil by pipeline are not reported. For survey descriptions and other detail, see Explanatory Notes 1.2 and 1.4.

Note 2.7 Preliminary Monthly Statistics

Data from the Weekly Petroleum Reporting System (Forms EIA-161, 162, 163, 164 and 165) are used to estimate the most recent monthly values for the historical statistics. Since some of the weekly reporting periods overlap 2 adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To calculate monthly estimates of crude oil and petroleum product imports, crude oil input to refineries, and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel and residual fuel) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the 2 weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of earlier of the 2 weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 2.2.

Note 3 Accuracy of Petroleum Supply Data

Early in 1981, the Energy Information Administration completed an assessment of the accuracy of principal petroleum supply data series. ¹This assessment concentrated on two methods of analysis:

- •Comparisons between EIA's final annual estimates published in the *Petroleum Statement Annual (PSA)* and annual estimates from independent sources.
- •Comparisons between EIA's final monthly estimates published in the PSA and EIA's earlier estimates published in the Monthly Petroleum Statistics Report and the Petroleum Statement, Monthly (predecessor of the Monthly Petroleum Statement).

Selected excerpts from these comparisons are presented below.

Comparisons of Annual Estimates

All of the systems that provide data for the *Petroleum Supply Monthly*, except for the weekly systems, try to collect data from the entire universe of their potential respondents. They do not sample, and have no sampling errors. Inaccuracies in the data still occur because of problems such as incomplete lists of respondents, errors in the responses, and conceptual errors in the design of the data systems. Such inaccuracies are hard to identify and even harder to quantify. Some understanding of the overall accuracy of the estimates can be achieved by comparing estimates derived from independent sources of data, as shown in the following tables. Close agreements among annual estimates from several independent sources support the conclusion that the estimates are accurate, and accuracy in the annual estimates implies accuracy in the monthly estimates that comprise the annual estimates.

Crude Oil Production

Comparisons among independent estimates of annual crude oil and lease condensate production lead to the conclusion that the PSA estimates are probably accurate to within 1 percent.

Crude Oil Imports

Comparisons among independent estimates of annual crude oil imports lead to the conclusion that the *PSA* estimates are probably accurate to within 1 percent. This conclusion is supported by a study of EIA and Customs/Census import data performed for EIA.²

Motor Gasoline Supplied

Comparisons among independent estimates of the annual volume of motor gasoline supplied for domestic use show that differences in the estimates grew between 1977 and 1979. By 1979, the EIA estimate of sales by refiners and the Environmental Protection Agency's estimate of production had grown about 5-7 percent larger than the comparable *PSA*, Lundberg, and American Petroleum Institute (API) estimates. Research conducted by EIA in 1979 and 1980³ confirmed that the lower

¹An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292, June 1981.

²Maxima Corporation, Petroleum Imports Reporting Systems, Preliminary Draft, (Silver Spring, Maryland: February 1980). Prepared for the Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Washington, D.C.

⁸Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, An Evaluation of Published EIA Gasotine Supply Estimates (Washington, D.C.: April 1980).

estimates were inaccurate, and identified changes in the petroleum industry that had an adverse effect on the *PSA* estimate. During 1980, EIA developed and tested improved procedures for collecting petroleum supply data, and implemented them in January 1981. (See Explanatory Note 4.)

Distillate Fuel Oil Supplied

Comparisons among independent estimates of the annual volume of distillate fuel oil supplied for domestic use lead to the conclusion that the *PSA* estimates are probably accurate to within 1 to 2 percent.

Residual Fuel Oil Supplied

Comparisons among independent estimates of the annual volume of residual fuel oil supplied for domestic use seem to show sizable and consistent differences between the EIA estimates of sales by refiners and the PSA and API estimates. When imports of residual fuel oil by nonrefiners are added to the refiner sales, however, the difference between refiner sales and the PSA estimates are narrowed to within 1 percent. The comparisons therefore lead to the conclusion that the PSA estimates are probably accurate to within 1 to 2 percent.

Comparison of Estimates of the Volume of Crude Oil and Lease Condensate Production, 1977-1979

	Estimated Volume of Production in Millions of 42-U.S. Gallon Barrels*			Comparative Estimate a Percent of the PSA Estimate		
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement Annual ^b	3,121	3,178	3,009	///	///	///
Comparative Estimates						
American Petroleum Institute Estimate from API Monthly Statistical Report	3,130	3,214	3,021	100.3%	101.1%	100.4%
Census Estimate from the Annual Survey of Oil and Gas ^d		3,148	3,016		99.1%	100.2%
Oil and Gas Journal Estimates of Total Production derived from Monthly Data	3,168	3,165	3,005	101.5%	99.6%	99.9%
EIA Estimate from Annual Survey of Oil and Gas Reserves (EIA-23) ^f	3,102	3,144	3,001	99.4%	98.9%	99.7%

^{/// =} Not applicable
- = Not available

Geographic coverage: the 50 United States and District of Columbia with adjacent areas of the Outer Continental shelf.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

aVolumes are rounded to the nearest million barrels.

bFrom Table 6 in EIA's Petroleum Statement Annual, 1977, 1978, 1979.

From issues of the American Petroleum Institute's *Monthly Statistical Report*. The annual values were obtained by summing the monthly values for each of the twelve-month periods.

dFrom Table 1, p.2 of the Bureau of Census' Annual Survey of Oil and Gas, 1978.

From issues of the Oil and Gas Journal. Monthly estimates are in thousands of barrels per day. They are converted to millions of barrels by dividing by 1,000 and multiplying by the number of days in the reporting period.

From EIA's U.S. Crude Oil and Natural Gas Reserves 1979 Annual Report (Table 19, p. 33), 1978 Annual Report (Table 16, p. 20), and 1977 Annual Report (Table 22, p.36).

Comparison of Estimates of the Volume of Crude Oil Imports, 1977-1979

	Volume of Millions of 42-U.S. Gallon Barrels ^a			Comparative Estimates a a Percent of the Primary Estimate		
·	1979	1978	1977	1979	1978	1977
EIA Estimate of Receipts at Ports of Entry (ERA-60) from <i>Petroleum</i> Statement, Annual ^b Comparative Estimates	2,380	2,320	2,414	///	///	///
American Petroleum Institute Estimate of Receipts as Reported by Refiners	2,346	2,323	2,360	98.6%	100.1%	97.8%
Customs/Census Estimate of Receipts at Ports of Entry (Customs Forms 7501 and 7502) ^d	2,415	2,338	2,431	101.5%	100.8%	100.7%
EIA Estimate of Inputs of Foreign Crude at Refineries (ETA-87)*	2,364	2,334	2,431	99.3%	100.6%	100.7%

^{/// =} Not applicable

^aVolumes are rounded to the nearest million barrels.

^bFrom Table 1 in EIA's *Petroleum Statement Annual* 1977, 1978, 1979. This table also includes imports for the Strategic Petroleum Reserve (SPR) which were 7.5 million in 1977, 58.8 million in 1978, and 24.4 million in 1979.

Estimate equals the sum of the annual estimate of imports derived from API's Monthly Statistics Report (which excludes imports for SPR), and the EIA estimates for imports for the SPR which are listed in footnote b above. The annual estimates from API data are equal to the sum of the API monthly estimates weighted by the number of days in each month.

^dData on imports to Puerto Rico which are included in the source for these estimates have been excluded from these estimates in keeping with the geographic coverage of the table. Data are from computer printouts of the Bureau of Census Report IM-245-X dated April 3, 1980 (1977 and 1978 data) and December 19, 1980 (1979 data).

Estimate equals refinery inputs of foreign crude plus (minus) stock increases (decreases) of foreign crude. The data for the computation are published in EIA's Petroleum Statement, Annuals. The stock changes (all increases) are derived from data on stocks of crude oil at refineries, bulk terminals, and pipelines as reported on Form EIA-90, plus the increase in the SPR. This estimate excludes crude oil imported and not used as refinery input.

Geographic coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

Comparison of Estimates of the Volume of Motor Gasoline Supplied for Domestic Use, 1977-1979

Volume in Millions of 42-U.S. Gallon Barrels ^a			Volume Supplied as a Percent of the PSA Estimate		
1979	1978	1977	1979	1978	1977
2,573	2,711	2,625	///	///	///
2,708	2,792	2,671	105.2%	103.0%	101.8%
2,766	2,851	2,706	107.5%	105.2%	103.1%
2,631	2,746	2,656	102.3%	101.3%	101.2%
2,579	2,697	2,612	100.2%	99.5%	99.5%
	42-U.S 1979 2,573 2,708 2,766 2,631	42-U.S. Gallon E 1979 1978 2,573 2,711 2,708 2,792 2,766 2,851 2,631 2,746	42-U.S. Gallon Barrels ^a 1979 1978 1977 2,573 2,711 2,625 2,708 2,792 2,671 2,766 2,851 2,706 2,631 2,746 2,656	42-U.S. Gallon Barrels ^a Percent of 1979 1979 1978 1977 1979 2,573 2,711 2,625 /// 2,708 2,792 2,671 105.2% 2,766 2,851 2,706 107.5% 2,631 2,746 2,656 102.3%	42-U.S. Gallon Barrels* Percent of the PSA 1979 1978 1977 1979 1978 2,573 2,711 2,625 /// /// 2,708 2,792 2,671 105.2% 103.0% 2,766 2,851 2,706 107.5% 105.2% 2,631 2,746 2,656 102.3% 101.3%

^{/// =} Not applicable

Geographic coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

Comparison of Estimates of the Volume of Distillate Fuel Oil (Including Kerosene) Supplied for Domestic Use, 1977-1979

	Volume in Millions of 42-U.S. Gallon Barrels ^a			Volume Supplied as a Percent of the PSA Estimate		
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement Annual ^b	1,269	1,307	1,275	///	///	///
Comparative Estimates						
EIA Estimate of Sales by Refiners (P-306) ^c	1,282	1,275	1,242	101.0%	97.6%	97.4%
American Petroleum Institute Estimate of Deliveries ^d	1,291	1,300	1,277	101.7%	99.5%	100.2%

^{/// =} Not applicable

Geographic coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

[&]quot;Volumes are rounded to the nearest million 42-U.S. gallon barrels.

^bDerived from Table 2 in EIA's Petroleum Statement Annual, 1977, 1978, 1979.

^cDerived from Table 1 of EIA's December issue of *Petroleum Market Shares, Report on Sales of Refined Petroleum Products* 1977, 1978, 1979.

^dThe estimate shown is derived by substituting EIA Domestic Production values with values of domestic production tabulated from the Environmental Protection Agency Bq. Form 3520-2, "Lead Additive Report for Refineries." The EPA production estimates are 2,694 million barrels in 1977, 2,757 in 1978, and 2,648 in 1979 as compared from a summary sheet provided by Mr. Bob Summerhayes of EPA.

^eFrom the mid-June issues of the "National Petroleum News," 1979 and 1980.

¹API publishes monthly estimates in thousands of barrels per month of the volume of motor gasoline delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API publications the estimates are revised using EIA data. The values shown in the table are equal to the sums of the initial published API monthly estimates o motor gasoline multiplied by the number of days per month.

[&]quot;Volumes are rounded to the nearest million 42-U.S. gallon barrels.

^bDerived from Table 2 in EIA's "Petroleum Statement Annual", 1977, 1978, 1979.

^cDerived from Table 1 of EIA's December issue of *Petroleum Market Shares, Report on Sales of Refined Petroleum Products*, 1977, 1978, 1979.

^dAPI publishes monthly estimates in thousands of barrels per month of the volume of distillate and kerosene delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API publications the estimates are revised using EIA data. The values shown in the table are equal to the sums of the initial published API monthly estimates of distillate and kerosene multiplied by the number of days per month.

Comparison of Estimates of the Volume of Residual Fuel Oil Supplied for Domestic Use, 1977-1979.

	Volume in Millions of 42-U.S. Gallon Barrels			Volume Supplied as a Percent of the PSA Estimates		
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement, Annual ^b	1,024	1,095	1,109	///	///	///
Comparative Estimates						
EIA Estimate of Sales by Refiners (P-306)°	796	832	847	80.8%	79.6%	80.1%
American Petroleum Institute Estimate of Deliveries d	1,044	1,101	1,114	102.0%	100.5%	100.4%

^{/// =} Not Applicable

Geographic Coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

Comparisons of Monthly Estimates Over Time

Inaccuracies in petroleum data resulting from incomplete or delayed reports from respondents and from data processing errors are usually eliminated from the final PSA estimates. Such inaccuracies can still have important effects on the monthly estimates published in the Petroleum Supply Monthly and its predecessors. The following tables compare the initial monthly estimates published in the Monthly Petroleum Statistics Report and the Petroleum Statement, Monthly with the final monthly estimates published in the PSA. During 1977–1979, the Monthly Petroleum Statistics Report was published about 60 days after the end of the reporting month, and the Petroleum Statement, Monthly was published about 120-150 days after the end of the reporting month. The tables show that, both in terms of bias and in terms of standard deviation, the later estimates are consistently more accurate than the earlier estimates. In spite of this, the earlier estimates may have been more valuable to users of energy information because of the large difference in timeliness.

For purposes of comparison, the Petroleum Supply Monthly is scheduled to be published on about the same time lag as the Monthly Petroleum Statistics Report. Caution should be exercised, however, in drawing conclusions from this similarity. The Petroleum Supply Monthly uses improved data processing procedures developed and successfully implemented during 1981. In addition, since 1979, EIA has greatly improved the accuracy of its 60-day crude oil production estimates and is making progress in improving the accuracy of its 60-day import estimates.

^{*}Volumes are rounded to the nearest million 42-U.S. gallon barrels.

^bDerived From Table 2 in EIA's *Petroleum Statement Annual*, 1977, 1978, 1979. Refinery fuel use, subtracted from the figures in the source referenced below, has been reinstated in these estimates.

^cDerived from Table 1 of EIA's December issue of Petroleum Market Shares, Report on Sales of Refined Petroleum Products, 1977, 1978, 1979.

^dAPI publishes monthly estimates in thousands of barrels per month of the volume of residual fuel oil delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API publications the estimates are revised using EIA data. The values shown in the table are equal to the sums of the initial published API monthly estimates of residual fuel oil multiplied by the number of days per month.

Initial Monthly Estimates of Production, Stocks, and Imports of Crude Oil As A Percent of EIA's Final Published Estimates ^a January 1977 – December 1979

	Production During Month		Primary Stocks At End of Month			Imports During Month		
		lean ercent	Standard Deviation	Mean Percent	Standard Deviation		Mean ercent	Standard Deviation
EIA's Estimates from the Monthly Petroleum Statistics Report ^b	#	98.7%	1.6%	# 98.3%	1.4%	#	95.4%	2.4%
EIA's Estimates from the Petroleum Statement, Monthly	#	99.6%	0.6%	100.0%	0.1%	#	98.4%	1.3%

Initial Monthly Estimates of Products Supplied for Domestic Use as A Percent of EIA's Final Published Estimates ^a
January 1977 – December 1979

	Motor	Gasoline	Distillate	e Fuel Oil	Residual Fuel Oil		
	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	
EIA's Estimates from the Monthly Petroleum Statistics Report ^b	99.9%	1.3%	99,9%	2.3%	# 97.9%	2.7%	
EIA's Estimates from the Petroleum Statement, Monthly	100.0%	0.3%	99.7%	0.5%	99.4%	1.2%	

Initial Monthly Estimates of End-of-Month Primary Stocks As a Percent of EIA's Final Published Estimates ^a
January 1977 - December 1979

	Motor	Gasoline	Distillate	e Fuel Oil	Residual Fuel Oil	
EIA's Estimates from the	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	Mean Percent	Standarc Deviation
Monthly Petroleum Statistics Report ^b	99.7%	0.8%	99.7%	1.1%	100.1%	0.7%
EIA's Estimates from the Petroleum Statement, Monthly	99.9%	0.2%	100.0%	0.1%	100.1%	0.5%

[#] Represents a difference from 100% found to be statistically significant at the 95% level of confidence (n = 36).

^aFinal monthly estimates are from the "Petroleum Statement, Annual" for 1977, 1978 and 1979. The mean percent is calculated as follows: each preliminary estimate is first expressed as a percent of EIA's final published estimate these are then summed and the sum is divided by the number of estimates. The standard deviation is the square root of the quantity computed by summing the squared deviation of the percents from the mean percent and then dividing by the number of percents.

bBased on 36 initial estimates appearing in issues dated January 1977 - December 1979.

Based on 36 initial estimates appearing in issues dated January 1977 - December 1979.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

Note 4 Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1980 were developed using definitions, concepts, reporting procedures and aggregation methods that are consistent with those developed by the U.S. Bureau of Mines. Research conducted by the Energy Information Administration in 1979 and 1980 indicated that changes had occurred in the petroleum industry that were not being adequately reflected in EIA's reporting systems.

EIA reporting forms, definitions, and procedures were modified beginning in January 1981 to describe industry operations more accurately. Unfortunately, empirical information is not available to precisely measure the data shortcomings throughout 1980. However, estimates of the magnitudes of differences in the major data series are described below to form a basis for comparing 1979, 1980, and 1981 data.

Motor Gasoline

Prior to 1979, the EIA product-supplied series for motor gasoline was consistently about 2 percent lower than the Federal Highway Administration (FHWA) gasoline-sales data series, which is derived from State tax receipts. This difference increased to about 4 percent in 1979 and 5 percent in 1980. There are two primary causes for this growing difference. First, refinery operations, particularly the flows of unfinished oils and the redesignation of some finished products, were not being accurately described on the EIA survey forms. Second, a large amount of gasoline was being produced away from refineries at "downstream blending stations" to take advantage of provisions in regulations governing the amount of lead that could be added. These blending stations were not reporting gasoline production to the EIA until the data system was changed in January 1981.

Quantitative estimates of the magnitude of the difference—in EIA's gasoline product supplied data in 1979 and 1980 have been made by the EIA and the American Petroleum Institute (API). The following table provides 1979 and 1980 data as published in the Petroleum Statement Annual, as well as EIA and API estimates of "recast" motor gasoline product supplied. EIA recast estimates were based upon preliminary monthly information in the Monthly Petroleum Statement. The ranges displayed in the EIA column reflect uncertainty in the estimates. Also shown are the FHWA motor gasoline sales statistics for those years. EIA has recently published a study of the quality of these FHWA data.

Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Error Profile of the Motor Fuel Taxation Data used to Establish and Monitor State Emergency Conservation Targets (Washington, D.C.: December, 1981).

		19	79		1980					
	EIA Reported	API Recast	EIA Recast	FHWA	EIA Reported	API Recast	EIA Recast	FHWA		
Jan	6,830	7,230	7,084- 7,246	6,984	6,323	6,789	6,630- 6,791	6,672		
Feb	7,254	7,496	7,389- 7,568	7,538	6,596	6,983	6,831- 7,003	6,830		
Mar	7,229	7,414	7,301- 7,463	7,316	6,406	6,753	6,607- 6,768	6,713		
Apr	7,055	7,300	7,187- 7,353	7,375	6,800	7,014	6,886- 7,052	6,981		
May	7,213	7,429	7,313- 7,475	7,428	6,729	6,954	6,823- 6,984	7,044		
Jun	7,191	7,483	7,350- 7,516	7,441	6,657	6,966	6,824- 6,991	7,049		
Jul	6,902	7,241	7,105- 7,266	7,299	6,743	6,973	6,960	7,132		
Aug	7,330	7,546	7,426- 7,588	7,619	6,648	6,841	6,828	7,090		
Sep	6,881	7,122	7,016- 7,262	7,232	6,510	6,692	6,962	6,685		
Nov	6,791	7,068	6,956- 7,122	7,142	6,234	6,507	6,516	6,951		
Dec	6,730	7,106	6,966- 7,127	7,064	6,632	6,948	6,936	6,993		
Average	7,034	7,302	7,183- 7,347	7,309	6,579	6,882	6,806- 6,889	6,925		

¹FHWA gasoline statistics published in their 1979 Table MF-33G, 08-06-80, contain aviation gasoline as well as motor gasoline. Only motor gasoline data are included in published 1980 data. Consequently, the 1979 data shown above were reduced by subtracting aviation gasoline product supplied quantities as published by EIA in the 1979 Petroleum Statement Annual. The 1980 FHWA data published in their 1980 Table MF-33GA, August 1981, did not require this adjustment.

Distillate and Residual Fuel Oil

Distillate and residual fuel oil refinery production statistics through 1980 were adjusted to account for an imbalance between unfinished oil supply and disposition. The reported quantities of refinery inputs of unfinished oils typically exceed the available supply of unfinished oils. It has been assumed that this occurs when distillate and residual fuel oil produced by a refinery is shipped to another refinery, where it is treated as unfinished oil. This oil is then reprocessed rather than used or sold as distillate or residual fuel oil.

For many years (including 1980), the difference between unfinished oil disposition and supply was subtracted from distillate and residual fuel oil production to adjust for this discrepancy. Two-thirds of the difference was applied to distillate, and one-third to residual fuel oil.

Beginning in January 1981 this adjustment was discontinued because there was not sufficient empirical evidence to support it. The following table presents distillate and residual fuel oil refinery production in 1980 as published (adjusted) and on the same basis as 1981 statistics are now being completed (unadjusted) to permit comparison between 1980 and 1981 data series. Adjusted distillate and residual fuel oil product supplied volumes differ from the unadjusted volumes by the same amounts as the adjusted and unadjusted production volumes.

Adjusted and Unadjusted Refinery Production, and Unadjusted Product Supplied of Distillate and Residual Fuel Oils, by Month for 1979 and 1980 (Thousand Barrels Per Day)

1979

		Distillate	Fuel Oil		Residual Fuel Oil					
Month_	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied		
Jan.	3.043	3,108	65	4,646	1,912	1,946	34	3,594		
Feb.	2,888	2,945	57	4,869	1,792	1,822	30	3,625		
Mar.	3.019	3,026	7	3,671	1,719	1,723	4	3,243		
Apr.	2,945	2,978	32	3,048	1,639	1,656	17	2,524		
May	3,066	3,093	27	3,025	1,586	1,600	14	2,517		
Jun.	3,153	3,187	35	2,743	1,548	1,566	18	2,601		
Jul.	3,305	3,344	38	2,601	1,575	1,594	20	2,471		
Aug.	3,321	3,359	38	2,799	1,584	1,603	20	2,570		
Sep.	3,354	3,306	-48	2,599	1,627	1,602	-25	2,584		
Oct.	3,251	3,217	-34	3,085	1,629	1,612	-17	2,523		
Nov.	3,239	3,200	-39	3,208	1,736	1,716	-20	2,795		
Dec.	3,221	3,238	17	3,725	1,894	1,903	9	3,022		
Average	3,152	3,169	16	3,327	1,687	1,695	8	2,834		

1980

		Distillate	Fuel Oil		Residual Fuel Oil					
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied		
Jan.	3,013	3,093	80	3,794	1,771	1,812	41	3,108		
Feb.	2,766	2,888	122	3,834	1,773	1,836	63	3,168		
Mar.	2,557	2,690	133	3,312	1,584	1,652	68	2,726		
Apr.	2,460	2,554	94	2,729	1,595	1,643	48	2,492		
May	2,474	2,610	136	2,538	1,509	1,579	70	2,305		
Jun.	2,646	2,721	75	2,392	1,575	1,613	38	2,359		
Jul.	2,689	2,783	94	2,343	1,480	1,528	48	2,339		
Aug.	2,461	2,582	121	2,258	1,444	1,506	62	2,348		
Sep.	2,686	2,726	40	2,627	1,495	1,516	21	2,380		
Oct.	2,589	2,650	61	2,981	1,512	1,543	31	2,258		
Nov.	2,703	2,823	120	3,069	1,579	1,641	62	2,513		
Dec.	2,891	3,052	161	3,776	1,660	1,743	83	2,762		
Average	2,661	2,764	103	2,969	1,580	1,634	54	2,562		

Total Petroleum Products

The imbalance between the supply and disposition of unfinished oils is now reported as part of the reclassified products (line 39) in the U.S. Petroleum Balance (Table 1). Imbalances between the supply and disposition of gasoline blending components comprise the remainder of the reclassified in Table 1. These imbalances are reported as negative product supplied in the Other Liquids section of the table of Supply and Disposition Statistics (Table 2). Since these changes only involve redistribution of the volumes of gasoline, distillate and residual fuel oil, gasoline blending components, and unfinished oils, the total volume of petroleum products supplied remains unaffected by them.

Note 5 Notes on Tables

- 5.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.
- Crude Oil and Petroleum Products Stock Withdrawal (+) or · Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.
- Natural Gas Plant Production is the sum of Natural Gas Plant Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Plant Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Petroleum Products Exports is the sum of Natural Gas Plant Liquids and LRGs, Other Liquids, and Finished Petroleum Products Exports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in Table 2.
- 5.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.
- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousands of barrels in Table 1.
- Total Crude Oil Ending Stocks appear in thousands of barrels in Table 2.
- Total Imports appear in Table 4.
- **5.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.**
- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending Stocks appear in thousands of barrels in Table 2.
- 5.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.
- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Crude Used Directly, Exports, and Product Supplied appear as labeled in Table 4.
- Ending Stocks appear in thousands of barrels in Table 2.
- 5.5 Liquefied Petroleum Gases and Ethane statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousands of barrels in Table 2.
- 5.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.
- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousands of barrels in Table 2.

Note 5.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3) of Table 1: Crude oil (including lease condensate) production for "Alaska," "Lower 48 States," and "Total U.S." are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 2.2), and taking the difference to equal production in the lower 48 states.
- Line (5) of Table 1: SPR imports are reported on Survey Form ERA-60.
- Line (12) of Table 1: "Total Other Sources" equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil plus crude used as fuel and losses in Table 2.
- Line (14) of Table 1: Natural gas plant liquids (NGPL) "Production" equals field production of natural gas plant liquids (NGPL) plus field production of finished petroleum products in Table 2.
- Line (15) of Table 1: NGPL "Imports" equals the sum of the imports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.
- Line (16) of Table 1: NGPL "Stock Withdrawal (+) or Addition (-)" is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) of Table 1 equals the sum of lines (14), (15), and (16) of Table 1.
- Line (18) of Table 1: unfinished oils and gasoline blending components "Stock Withdrawal (+) or Addition (-)" equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20) of Table 1: "Other Hydrocarbons and Alcohol New Supply" equals the field production of same in Table 2.
- Line (21) on Table 1: "Refinery Processing Gain" is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (22) on Table 1: "Crude Used Directly" equals the sum of crude oil used directly as distillate and residual fuel oils in Table 2.
- Line (23) of Table 1: "Total Other Liquids" equals the sum of lines (18) through (22) of Table 1.
- Line (24) of Table 1: "Total Production of Products" equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or

- addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil used as distillate and residual fuel oils in Table 2.
- Line (25) of Table 1: "Gross Imports of Refined Products" equals imports of LPG and ethane plus imports of finished petroleum products in Table 2.
- Line (26) of Table 1: "Exports of Refined Products" equals exports of LPG and ethane plus exports of finished petroleum products in Table 2.
- Line (27) of Table 1: "Net Imports of Refined Products" equals the difference between lines (25) and (26) of Table (1).
- Line (28) of Table 1: "Total New Supply of Products" equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil used as distillate and residual fuel oils; plus imports of LPG and ethane and finished petroleum products; minus exports of LPG and ethane and finished petroleum products in Table 2.
- Line (29) of Table 1: "Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and ethane, and finished petroleum products in Table 2.
- Line (30) of Table 1: "Total Petroleum Products Supplied for Domestic Use" equals total products supplied in Table 2.
- Lines (31) through (37) of Table 1 equal the respective products supplied in Table 2.
- Line (38) of Table 1: "Other Products Supplied" equals the sum of natural gasoline and isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock uses, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, and miscellaneous products supplied in Table 2.
- Line (39) of Table 1: "Total Reclassified" is a balancing item equal to the sum of unfinished oils, motor gasoline blending components, and aviation gasoline blending components products supplied in Table 2.
- Line (40) of Table 1: "Total Product Supplied" is equal to total products supplied in Table 2.
- The sum of lines (41) and (42) of Table 1, stocks of "Crude Oil and Lease Condensate (Excluding SPR)" and stocks held by the "Strategic Petroleum Reserve," equals ending stocks of crude oil in Table 2, SPR stocks are reported on Form EIA-90.
- Line (46) of Table 1, stocks of "Refined Products," equals the sum of LPG and ethane and finished petroleum product stocks in Table 2.

		4

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